MOSSBERG WRENCHES

33

1924

FRANK MOSSBERG CO.
ATTLEBORO, MASS.

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CATALOG No. 25, 1924

FRANK MOSSBERG COMPANY

MANUFACTURERS OF

WRENCHES

BELLS, STAMPED STEEL REELS, BEAMS AND SPOOLS, SHEET METAL STAMPINGS

Branch Offices

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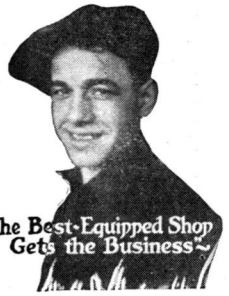

LAMB STREET, ATTLEBORO, MASS., U. S. A.

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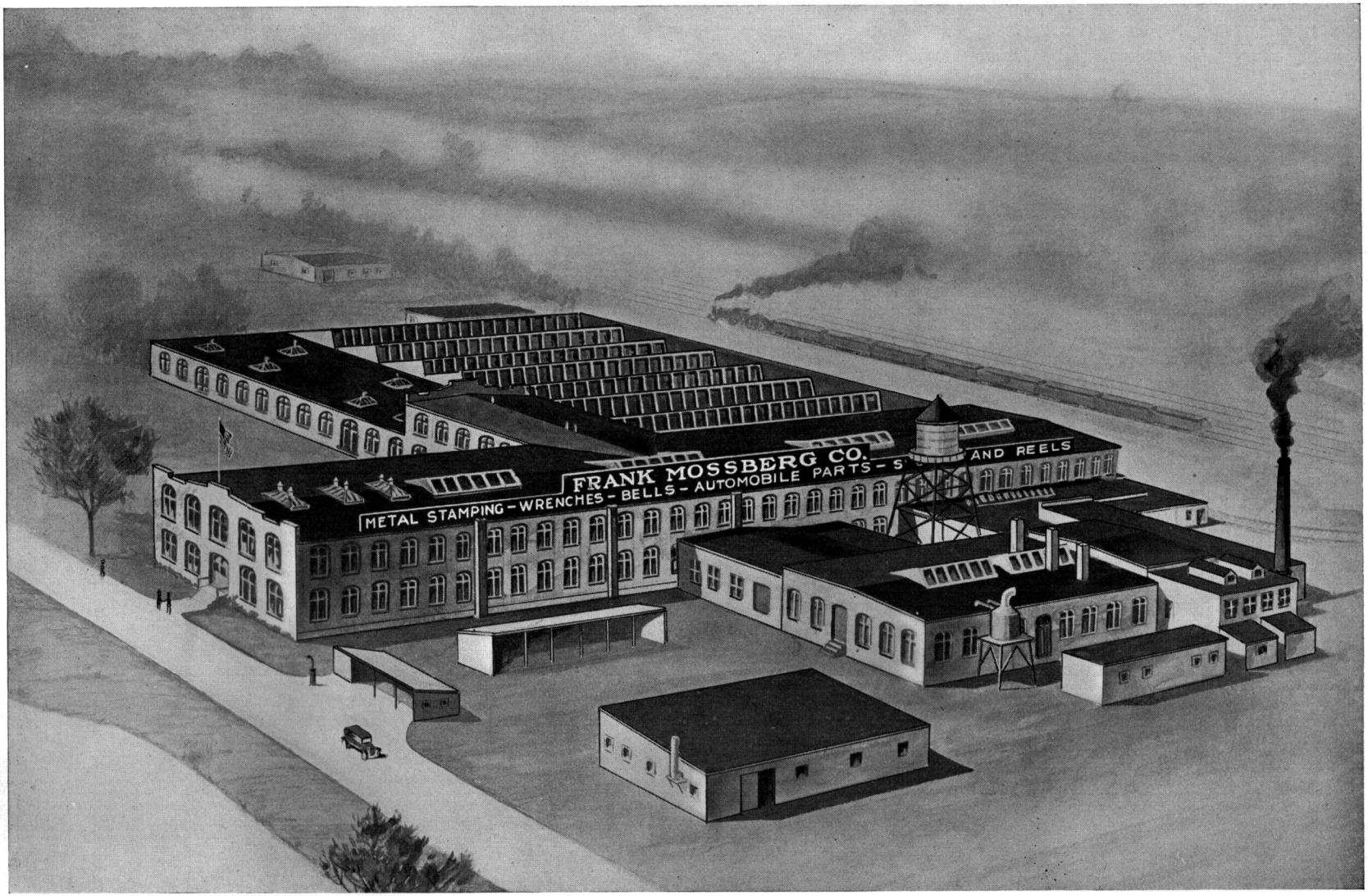

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Frank Mossberg Co. **Attleboro Mass.**

1924

Mossberg Wrenches are in their twenty-fourth year. The experience in manufacturing and marketing wrenches for a full quarter of a century effect a finished product and a policy that actually offers the jobbers and dealers great turnover with a margin beyond the average.

The strong features to consider are these:

1. **Chrome manganese steel** is used. This results in stronger wrenches with the use of less material.

2. All bar line wrenches are of **solid, forged, one-piece construction.** This is an exclusive Mossberg feature and represents the greatest step in progress of wrench making for many years. No more consideration as to whether sockets are properly affixed—the Mossberg Wrenches which you will use, are forged from one solid bar of chrome manganese steel!

3. **New type cartons** have been adapted that solve your shelf and shipping problems for all time. Test the new cartons; take the wrenches out of the box and after replacing the cover, *stand* on the box.

4. 1924 advertising program is adapted for your particular local needs—ask about it. By the way, our well organized advertising department is available to suggest catalog copy, **written from the jobbers' angle** and with a realization of the problems of the jobbers and dealers.

5. Twenty-four years ago the Mossberg Company established a policy of selling their product through the **jobbing part** of this industry. From this policy this company has never deviated, and the quality of the jobbers' accounts has never been questioned.

6. The "A. M." plan of selling has proved successful for the jobber and dealer who accepts. Just a word from you, and we will explain our very simple and complete plans for assuring you of increased profits on wrenches. It is being accomplished every day—every month—and it will be our privilege to work with you, if you are interested in more profits on your tool turnover.

7. The greatest reason for the turnover and profit on Mossberg Wrenches is found in the facts that the line is more complete without including slow moving items; that the finish and adaptability are exclusively the result of Mossberg Company's keen analysis of wrench requirements and market needs. Mossberg Wrenches are individual—individually and as a Line to stock and sell.

FRANK MOSSBERG COMPANY

ATTLEBORO, MASS.

February 1, 1924.

Mossberg Solid Socket Wrenches

2400 Series

Chrome Manganese Steel Speed Brace Wrenches

Mossberg Speed Braces are made with bar and socket of one piece construction from chrome manganese steel.

This gives both surface hardness and grain toughness that will resist twisting strains—the test of all wrenches.

Construction: Chrome manganese steel. Deep sockets and 1/2 inch bar of one piece construction. Sockets made in round shape allowing thin walls, minimum clearance, and with reinforced faces. Properly heat treated.

Finish: Burnished nickel.

Length: 19-1/4 inches.

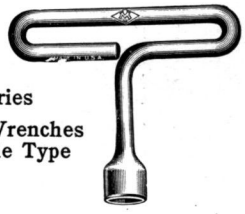
Packing: Six of a size in a carton.

Shipping Weight: Six braces, 11-3/4 pounds.

Electrotypes: 11/16 by 2-3/8 inches.

2200 Series

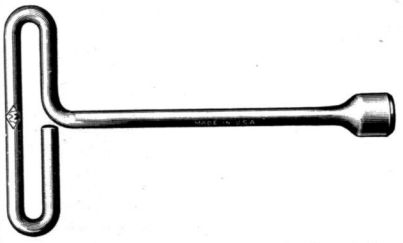
Solid Socket Wrenches "Tee" Handle Type



Construction: Chrome manganese steel. Deep sockets and 1/2 inch bar of one piece construction.
Finish: Burnished nickel.
Length: 6 inches.
Packing: Six of a size in a carton.
Shipping Weight: Six wrenches, 8 pounds.
Electrotypes: 1-1/4 by 1 inch.

Chrome Manganese Steel Solid Socket Wrenches "Tee" Handle Type Patent Pending

2300 Series



Socket Wrenches are replacing other types because their use means time saved and because they leave nuts, bolts and screws cleaner—without burrs and roughing up.

"Tee" Handle Types are the most applicable of these new solid socket wrenches.

Construction: Chrome manganese steel. Deep sockets and 1/2 inch bar of one piece construction. Sockets made in round shape allowing thin walls, minimum clearance and with reinforced faces. Properly heat treated.
Finish: Burnished nickel.
Length: 12 inches.
Packing: Six of a size in a carton.
Shipping Weight: Six wrenches, 10 pounds.
Electrotypes: 1-1/4 by 2 inches.

"All-Steel" Solid Offset Socket Wrenches

2100 Series

Construction: 1/2 inch Chrome manganese steel bar. Deep dome top sockets of special analysis steel, round shape, minimum clearance.
Finish: Burnished nickel.
Length: 10 inches.
Packing: Six of a size in a carton.
Shipping Weight: Six wrenches, 5 pounds.
Electrotypes: 2 by 7/16 inch.

2900 Series

Patented "Swivel-Joint" Speed Brace Wrenches

These are the most practical of "Swivel-Joint" or "Universal Joint" wrenches. The operation is quicker because they remain seated with less care. They make adjustments possible that otherwise would need disassembling of interfering parts.
Construction: 1/2 inch chrome manganese steel bar. Sockets of special steel, tapered.
Finish: Burnished nickel.
Length: 19-1/4 inches.
Packing: Six of a size in a carton.
Shipping Weight: Six wrenches, 11-3/4 pounds.
Electrotypes: 11/16 by 2-3/8 inches.

2800 Series

Patented "Swivel-Joint" "Tee" Wrenches

No. 2800 Series make adjustments possible that otherwise would require disassembling of interfering parts.

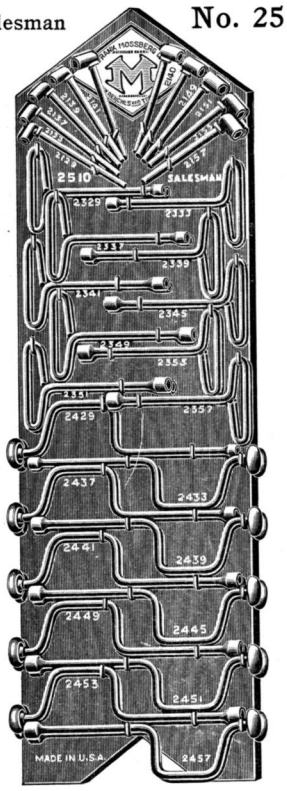
Construction: 1/2 inch Chrome manganese steel bar. Sockets of special steel, tapered.
Finish: Burnished nickel.
Length: 12 inches.
Packing: Six of a size in a carton.
Shipping Weight: Six wrenches, 10-3/4 pounds.
Electrotypes: 1-1/4 by 2-1/8 inches.

Offset Wrench No.	6" Tee Wrench No.	12" Tee Wrench No.	Speed Brace Wrench No.	Socket Opening Size Hex. Inches	U. S. Standard Nuts and Bolt Heads. Bolt Size Inches	S. A. E. Standard Nuts and Screw Heads. Screw Size Inches	Hex. Head Cap Screws. Screw Size Inches
2129	2229	2329	2429	7/16	.....	1/4	1/4
2133	2233	2333	2433	1/2	1/4	5/16	5/16
2137	2237	2337	2437	9/16	.....	3/8	3/8
2139	2239	2339	2439	19/32	5/6	.....	.....
2141	2241	2341	2441	5/8	.....	7/16	7/16
2145	2245	2345	2445	11/16	3/8	.....	.....
2149	2249	2349	2449	3/4	.....	1/2	1/2
2151	2251	2351	2451	25/32	7/16	.....	.....
2153	2253	2353	2453	13/16	.....	.....	9/16
2157	2257	2357	2457	7/8	1/2	9/16	5/8

Wrench No.	Wrench No.	Socket Opening Size Hex. Inches	U. S. Standard Nuts and Bolt Heads. Bolt Size Inches	S. A. E. Standard Nuts and Screw Heads. ScrewSize Inches	Hex. Head Cap Screws. Screw Size Inches
2829	2929	7/16	.....	1/4	1/4
2833	2933	1/2	1/4	5/16	5/16
2837	2937	9/16	.....	3/8	3/8
2839	2939	19/32	5/16	.....	.....
2841	2941	5/8	.....	7/16	7/16
2845	2945	11/16	3/8	.....	.....
2849	2949	3/4	.....	1/2	1/2
2851	2951	25/32	7/16	.....	.....
2853	2953	13/16	.....	.....	9/16
2857	2957	7/8	1/2	9/16	5/8

Solid Socket Wrenches

Salesman No. 2510



Contains 108 Wrenches and is the finest possible way of solving the problem of "What shall I stock and how many?"

Each pair of hooks holds two wrenches. Reserve stock in individual items furnished in quantities as they sell.

Specifications

Wrench Description:

Construction: Deep sockets and 1/2 inch bar. One piece construction of chrome manganese steel. Sockets made in the round shape, allowing thin walls, minimum clearance, and with reinforced faces. Properly heat treated.

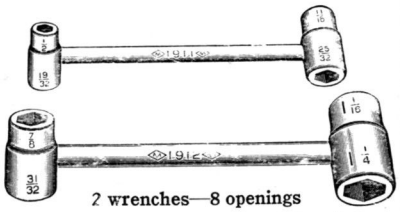
Finish: Burnished nickel.

Packing: Heavy cartons.

Electrotypes: 1-5/8 by 4-1/2 inches, and 1-3/8 by 4 inches.

No. 1910

U. S. Standard "Four-Way" Socket Set



2 wrenches—8 openings

The new "Four-Way" Socket Wrenches are the ultimate in economical and efficient motor work. The heavy special steel bars are sturdy for any work and the sockets are drawn from cold steel—the **best possible socket construction.**

Wrench No.	Socket Opening Size Hex. Inches	U. S. Standard Nuts and Bolt Heads. Bolt Size Inches	S. A. E. Standard Nuts and Screw Heads. Screw Size Inches	Hex. Head Cap Screws. Screw Size Inches
1911	1/2	1/4	5/16	5/16
	19/32	5/16	....	....
	11/16	3/8	....	....
	25/32	7/16	....	....
1912	7/8	1/2	9/16	5/8
	31/32	9/16	....	....
	1-1/16	5/8	3/4	....
	1-1/4	3/4	7/8	1

Sold singly or in sets.

Construction: Special Steel Bar.
1911—9/16 inch. 1912—11/16 inch.
Sockets of drawn cold steel.

Finish: Burnished nickel.

Length: 1911—9-1/2 inches. 1912—11 inches.

Packing: Each set in durable cardboard carton.

Shipping Weight: 4-1/8 pounds each set.

Electrotypes: 2 by 1 inch.

The store display stand is as well put up as your own salesroom fixtures.

Store Display Stand Description:

Cabinet Construction: Selected Chestnut 1 inch. Steel Hooks, nickeled. Each pair of hooks holds two wrenches, remainder of assortment is reserve stock.

Finish: Natural grain with three coats of finish.

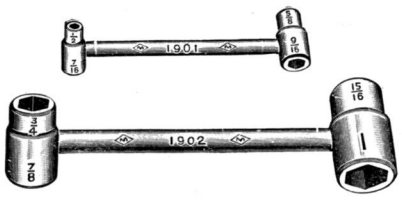
Size: 20 inches wide by 66 inches high. Easel back.

Price: Free with complete assortment.

Shipping Weight: Store display stand and assortment, 250 pounds.

No. 1900

"Four-Way" Socket Wrench Set of S.A.E. fittings



2 wrenches—8 openings

With only two wrenches, this set fits eight different nuts and bolts.

These two wrenches, to take out on a service job will do all the ordinary work required.

Set consists of the two numbers.

Order them in sets.

Wrench No.	Socket Opening Size Hex. Inches	U. S. Standard Nuts and Bolt Head. Bolt Size Inches	S. A. E. Standard Nuts and Screw Heads. Screw Size Inches	Hex. Head Cap Screws. Screw Size Inches
1901	7/16	....	1/4	1/4
	1/2	1/4	5/16	5/16
	9/16	....	3/8	3/8
	5/8	....	7/16	7/16
1902	3/4	....	1/2	1/2
	7/8	1/2	9/16	5/8
	15/16	....	5/8	....
	1	....	11/16	3/4

Sold singly or in sets.

Construction: Special Steel Bar.
1901—1/2 inch.
1902—11/16 inch.
Sockets of drawn cold steel.

Finish: Burnished nickel.

Length: 1901—9-1/2 inches.
1902—9-1/2 inches.

Packing: Each set in durable cardboard carton.

Shipping Weight: 3-1/2 pounds each set.

Electrotypes: 2 by 7/8 inch.

2510 Salesman—108 Wrenches—10 Sizes in Each of 3 Types

Quantity	Offset Wrench No.	Quantity	12" Tee Wrench No.	Quantity	Speed Brace Wrench No.	Socket Opening Size Hex. Inches	U. S. Standard Nuts and Bolt Heads. Bolt Size Inches	S. A. E. Standard Nuts and Screw Heads. Screw Size Inches	Hex. Head Cap Screws. Screw Size Inches
2	2129	2	2329	3	2429	7/16	.....	1/4	1/4
4	2133	5	2333	6	2433	1/2	1/4	5/16	5/16
6	2137	8	2337	9	2437	9/16	.....	3/8	3/8
2	2139	3	2339	3	2439	19/32	5/16	.....	.....
5	2141	6	2341	7	2441	5/8	.....	7/16	7/16
3	2145	3	2345	4	2445	11/16	3/8	.....	.....
2	2149	3	2349	4	2449	3/4	.....	1/2	1/2
2	2151	2	2351	2	2451	25/32	7/16	.....	.....
2	2153	2	2353	2	2453	13/16	.....	.....	9/16
2	2157	2	2357	2	2457	7/8	1/2	9/16	5/8

The numbers of all bar line wrenches are made up in this way:

The first digit indicates the sort of wrench that it is; that is to say, all 2000 numbers are bar line wrenches.

The second digit indicates the particular design of the wrench.

The last two digits give the actual size of the socket including the clearance, expressed in sixty-fourths.

DIRECTORY

Demountable Rim Wrenches. Complete Reference Table of Proper Mossberg Brace Wrenches of individual car demountable rim lug nuts.

Name of Cars	Model	Rim Nut Sizes Hex. Inches	Brace Wrench Number
Apperson	All	11/16	362
Briscoe	All	3/4	363
Buick	1918–21	3/4	363
Cadillac	Current	5/8	361
Chalmers	Current	5/8	361
Chandler	All	11/16	362
Chevrolet	All	3/4	363
Chevrolet Truck	All	3/4	363
Cole	1919–21	11/16	362
Columbia Six	Current	11/16	362
Crow Elkhart	Current	11/16	362
Cunningham	Current	11/16	362
Daniels Eight	All	11/16	362
Davis	Current	11/16	362
Detroiter	Current	3/4	363
Dixie Flyer	Current	3/4	363
Dodge	Current	5/8	361
Dodge Truck	1920 up	11/16	362
Dorris	Current	3/4	363
Dort	Current	11/16	362
Du Pont	Current	11/16	362
Durant	Current	3/4	363
Elcar	Current	3/4	363
Elgin	Current	11/16	362
Empire	Current	11/16	362
Essex	Current	5/8	361
Fiat	Current	3/4	363
Ford	Current	5/8	361
Ford Truck	1919 up	5/8	361
Gardner	Current	3/4	363
Glide	Current	3/4	363
Grant	All	11/16	362
Grant Truck	1920 up	11/16	362
Hanson	Current	5/8	361
Harroun	Current	3/4	363
Haynes	Current	11/16	362
Holmes	Current	11/16	362
Hudson	Current	5/8	361
Hupmobile	Current	5/8	361
Jeffery	Current	11/16	362
Jordan	All	11/16	362
King	Current	11/16	362
Kissel	Current	11/16	362
R. & V. Knight	Current	11/16	362
Lafayette	Current	11/16	362
Lexington	Current	11/16	362
Liberty	All	11/16	362
Lincoln	Current	5/8	361
Locomobile	All	11/16	362
McLaughlin	Current	3/4	363
Maibohm Six	Current	3/4	363
Maxwell	Current	3/4	363
Mercer	Current	11/16	362
Metz	Current	3/4	363
Mitchell	Current	3/4	363
Moline Knight	Current	11/16	362
Moon	1920–21	11/16	362
Nash	681–6	11/16	362
National	All	11/16	362
Oakland	1918–21	3/4	363
Oldsmobile	1920–21	3/4	363
Overland	Current	3/4	363
Packard	Current	11/16	362
Paige	Current	5/8	361
Patterson	Current	3/4	363
Peerless	All	11/16	362
Pierce-Arrow	Current	11/16	362
Premier	All	11/16	362
Reo	All	11/16	362
Reo Truck	1920	11/16	362
	1921 up	3/4	363
Saxon-Duplex	Current	5/8	361
Scripps-Booth	Current	5/8	361
Standard	Current	11/16	362
Stanley Steamer	Current	11/16	362
Stearns	Current	11/16	362
Stephens	Current	3/4	363
Studebaker	Current	5/8	361
Templar	Current	11/16	362
Velie	1918–20	11/16	362
Westcott	Current	3/4	363
White	Current	11/16	362
Willys-Knight	Current	3/4	363
Winton	All	11/16	362

No. 1950 ("Four-Size") demountable rim wrench fits all cars listed above.

MOSSBERG DEMOUNTABLE RIM WRENCHES

Wrench Description:

Construction: 1/2 inch chrome manganese steel bar and deep sockets. One piece construction. End and center swivel-grip steel handles. Braces properly heat treated.
Finish: Burnished nickel.
Length: 14 inches.
Throw: 5-1/4 inches.
Packing: Durable cartons.
Quantity:

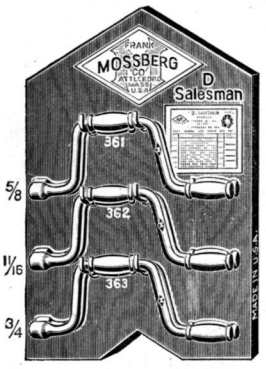
12 No. 361 Wrenches
4 No. 362 Wrenches
8 No. 363 Wrenches
Total 24 Wrenches

Fits: See table in demountable rim wrench description.

Store Display Stand Description:

Construction: Cabinet work, Selected Chestnut 1 inch. Steel Hooks, nickeled.
Finish: Natural grain with three coats of finish.
Size: 15 inches wide by 19-1/8 inches high. Easel back.
Shipping Weight: Store display stand and assortment, 73 pounds.
Electrotypes: 1-5/16 by 1-7/8 inches.
Price: Free with complete assortment.

No. "D" Salesman



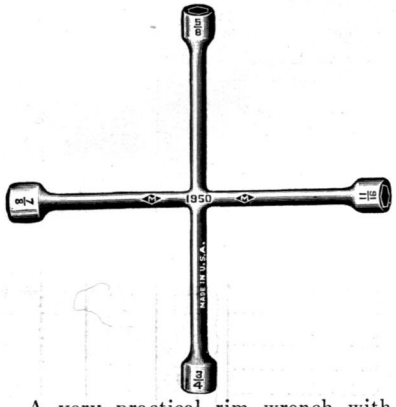
Sales of any article depend upon their being properly displayed.

The "D" Display will automatically sell these Demountable Rim Wrenches if placed in a fair position. Filling stations, repair shops and garages are using them.

This store display stand can be ordered with all wrenches of any one size for car salesroom and service stations.

No. 1950

"Four-Size" Demountable Rim Wrench



A very practical rim wrench with positive openings for four sizes of lug nuts.

There are no **approximate** fittings with use of No. 1950—there are four separate sockets.

Openings: 5/8, 11/16, 3/4, and **7/8** inch hex.
Fits: See table in demountable rim wrench description.
Construction: Chrome manganese steel. One piece construction of 1/2 inch bar and deep sockets. Properly heat treated.
Finish: Burnished nickel.
Length: 12-1/2 inches.
Width: 12-1/2 inches.
Packing: 6 in a carton.
Shipping Weight: 11-3/4 pounds.
Electrotypes: 2 by 2 inches.

Demountable Rim Wrenches "OWNER" Series

No. 361, 362, 363, 364, 365

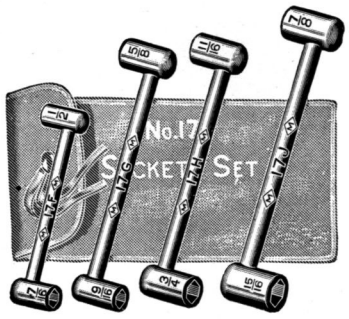
"All-steel" Demountable Rim Wrenches are actually designed for endurance and facility for work and are wholly guaranteed.

No.	Socket Size	Fits
361	5/8	Kelsey, Hays, Jackson, Mott.
362	11/16	Firestone, Goodrich.
363	3/4	Baker, Detroit, Firestone, Hays, Jackson, Mott, Perlman, Stanweld.
364	13/16	Stanweld, United.
365	7/8	Firestone. This number also fits all Giant Pneumatic Tire Rims.

Construction: 1/2 inch chrome manganese steel bar and deep sockets. One piece construction. End and center swivel-grip steel handles. Braces properly heat treated.
Finish: Burnished nickel.
Length: 14 inches.
Throw: 5-1/4 inches.
Packing: 6 of a size in a carton.
Shipping Weight: 6 wrenches, 10 pounds.
Electrotypes: 1-7/8 by 3/4 inch.

No. 17

Heavy Duty Repair Set



A double-end set of Heavy Duty Socket Wrenches especially designed for Repair Work. Guaranteed for hard work.

Wrench No.	Socket Opening Size Hex. Inches	U. S. Standard Nuts and Bolt Heads. Bolt Size Inches	S. A. E. Standard Nuts and Screw Heads. Screw Size Inches	Hex. Head Cap Screws. Screw Size Inches
17F	7/16	.....	1/4	1/4
	1/2	1/4	5/16	5/16
17G	9/16	.....	3/8	3/8
	5/8	.....	7/16	7/16
17H	11/16	3/8	.....	....
	3/4	.....	1/2	1/2
17J	7/8	1/2	9/16	5/8
	15/16	.....	5/8	....

Sold singly or in sets

Construction: 1/2 inch chrome manganese steel bar. Deep dome top sockets of heavy special steel, round shape for maximum clearance.
Finish: Burnished nickel.
Length: 17F—7-1/8 inches.
17G—9-1/4 inches.
17H—9-1/4 inches.
17J—10-1/2 inches.
Packing: Canvas kit.
Shipping Weight: 4-7/8 lbs., each set.
Electrotypes: 1-3/4 by 1-5/8 inches.

These "Double-End" Socket Wrenches have sold very fast since they were brought out because:

—they give so **much** at so small a cost.

—they enable a mechanic to fit the work without guessing or changing the wrench size.

—they will actually perform the hardest work when properly used.

—they are compact to carry and use.

—they are made of simple construction.

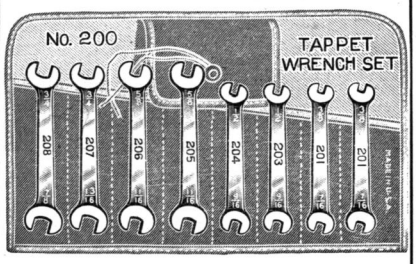
Standard Tappet Wrenches

Complete reference of Mossberg Wrenches for Tappet Adjusting

CARS	Size of Opening Inches	Wrench number	Quantity Wrenches Needed
Briscoe	1/2	204	2
Buick 4	1/2	204	2
Buick 6	1/2	204	2
Chalmers	5/8	206	1
	7/8	208	1
Chandler	9/16	204	2
Chevrolet (490)	1/2	204	2
Chevrolet "Baby Grand"	1/2	204	2
Cleveland	9/16	204	2
Cole	9/16	204	2
Columbia	1/2	204	1
	9/16	204	1
	7/8	208	2
Daniels	1/2	204	1
Dort	1/2	204	1
	9/16	204	1
	5/8	206	1
Dodge	1/2	203	1
	1/2	204	1
Du Pont	9/16	204	2
Durant	1/2	204	1
Essex	5/8	205	1
	11/16	206	1
	5/8	206	1
Franklin	11/16	206	1
Grant	7/16	201	2
Haynes	5/8	205	1
	5/8	206	1
	13/16	207	1
Holmes	3/8	201	2
Hudson	5/8	205	1
	5/8	206	1
	11/16	206	1
Hupmobile	9/16	204	2
Liberty	9/16	204	2
Lincoln	1/2	204	2
Marmon	9/16	204	2
Maxwell	1/2	203	1
	9/16	203	2
Mercer	9/16	204	2
Mitchell	11/16	206	1
	1/2	204	1
	9/16	204	1
Monroe	9/16	204	1
	1/2	204	1
	5/8	205	1
Moon	11/16	206	1
	13/16	207	1
Nash	1/2	204	1
	5/8	206	1
	5/8	206	2
National	11/16	206	1
Oakland	1/2	204	2
Oldsmobile	9/16	204	1
	1/2	204	1
Overland	1/2	203	1
	1/2	204	1
Packard	1/2	204	2
	9/16	204	1
Paige	11/16	205	1
	11/16	206	1
	5/8	206	1
Premier	1/2	204	2
Reo	3/8	201	1
	5/8	206	1
	11/16	206	1
Saxon	7/16	201	1
	9/16	204	1
	1/2	204	1
Scripps-Booth	1/2	204	2
Studebaker "Big 6"	1/2	204	1
	9/16	204	1
Studebaker "Special"	5/8	206	1
Studebaker "Light Six"	1/2	204	2
Stutz	9/16	204	2
Templar	1/2	204	1
Westcott	5/8	206	2
Winton	11/16	205	1
	11/16	206	1

No. 200

Standard Tappet Wrench Set



Tappet rods on poppet valves should be adjusted every week—if the motor is to be expected to run quietly.

Special wrenches are needed because the adjusting nut and check nuts are thin.

For easy adjustment, the wrenches must meet the exacting conditions; that is, they must be long and thin and generally must be used in pairs, and must be made of high carbon steel. These are all high carbon steel wrenches.

No. 200 Set for tappets of at least 49 cars is nearly a universal set.

Contains: 8 double-end wrenches, 16 openings.

Wrench No.	Opening Sizes Inches	Length Inches	Thickness Inches
201	3/8, 7/16	7	1/8
201	3/8, 7/16	7	1/8
203	1/2, 9/16	7	1/8
204	1/2, 9/16	7	3/16
205	5/8, 11/16	8	1/8
206	5/8, 11/16	8	3/16
207	3/4, 13/16	8	3/16
208	3/4, 7/8	8	3/16

Construction: High carbon steel to give necessary strength to necessarily thin model wrenches.

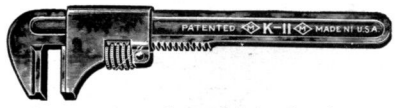
Finish: Burnished nickel finish, hardened, edges round, openings accurate.

Packing: Each set in canvas roll.

Shipping Weight: 1-3/4 pounds each set.

Electrotypes: 2-1/16 by 1-1/4 inches.

"K" Series
"All-Steel" Wrenches



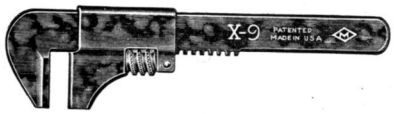
As motors and machines develop, so must the quality and design of tools keep pace with improvements. "K" Series, literally made by "Cold Forged" methods, offer three lengths of sizes and are built all of steel—where most of such wrenches are made partly of malleable iron and steel.

In 3 sizes:

Wrench No.	Length Inches	Opens Inches	Th'kness of Jaws Inches	Weight Ounces
K-7	7	1-3/8	3/8	9
K-9	9	1-3/4	1/2	13-1/4
K-11	11	2-1/2	1/2	22

Construction: "All-steel" (**no malleable** castings).
Finish: Mottled.
Packing: Individual cartons.
Electrotypes: 2 by 1/2 inch.

"X-9"
"All-Steel" Wrenches



The outstanding feature of the "X-9" is sturdiness and strength with not so much attention to finish as on "K" Series.
Construction: "All-steel."
Finish: Mottled.
Length: 9 inches.
Packing: One in a box.
Shipping Weight: 14 ounces.
Electrotypes: 2 by 9/16 inch.

Sterling Series

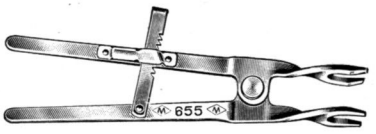
For twenty years, the finest line of smaller sizes of adjustable wrenches—and with reason.

2 sizes:

	Total Length Inches	Opens Inches	Th'kness of Jaws Inches	Weight Ounces
No. 1	5	1-1/4	5/16	4-1/2
No. 2	6-1/2	1-3/8	3/8	8-1/4

Construction: Heavy "all-steel."
Finish: Two types, full nickeled and mottled.
Packing: Individual cartons.
Electrotypes: 1-1/2 by 7/16 inch.

No. 655
Universal Valve Spring Lifter

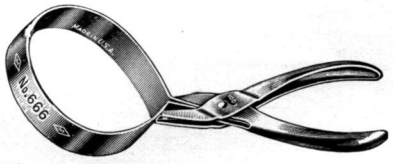


For removing and replacing valves in all kinds of motors.
"Stays put" because the ratchet locks it in position.
Construction: High carbon steel.
Fits:

Dodge	Oakland 1924 model
Haynes	645
Hudson	Overland 4
Jewett	Studebaker, Big Six
Mack truck	Special Six
Maxwell	Stutz 4 cylinder
Pierce-Arrow	Westcott
truck	White trucks, 2 and 8 ton models

Finish: Burnished nickel.
Length: 11-1/2 inches over all.
Packing: 2 in each carton.
Shipping Weight: 2 lifters, 2-1/4 pounds.
Electrotypes: 1-7/8 by 5/8 inch.

No. 666
Piston Ring Compressor



Fits:

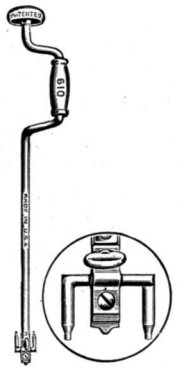
Biddle	Marmon
Chevrolet	Mercer
Dodge	Oldsmobile
Du Pont	Paige
Durant	R. & V. Knight
Ford	Stearns-Knight
H. C. S.	Studebaker Big Six
Leach	Winton

Construction: "All-steel" properly tempered.
Finish: Burnished nickel.
Length: 9-1/2 inches.
Packing: Individual carton.
Shipping Weight: 1/2 pound.
Electrotypes: 2 by 7/8 inch.

No. 101
Offset Screw Driver

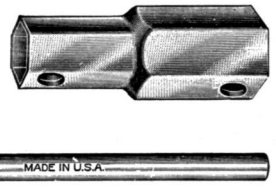
An indispensable tool—well made—is this screw driver and such a combination means quick turnover.
Construction: 3/8 inch Steel Bar. Blades, 3/8 inch wide, tempered.
Finish: Oil black.
Length: 6 inches.
Packing: 12 in a carton.

No. 610
Universal Valve Grinder



No. 610 is a valve grinder that serves all work in the grinding of valves, whether the valve tubes be slotted or holed. It is easily adjusted for either type.
The length gives the operator an easy position for the repeated quarter turns, and rocker points assure constant engagement without slipping.
Its cost is reasonably low for the help that it will give you, and like all Mossberg tools, it is guaranteed beyond any question.
Construction: 3/8 inch Steel Bar.
Finish: Burnished nickel.
Length: 21 inches over all.
Packing: 6 in a carton.
Shipping Weight: 6 Grinders, 8 pounds.
Electrotypes: 1-7/8 by 7/8 inch.

Double End Spark Plug Wrenches



Spark Plug Wrenches to fit two sizes of body nuts are economical and provide the best way to work on hot spark plugs. In fact, this sort of wrench is the only type to completely protect the fragile porcelain of plugs.

No.	Length Inches	Hex. Opening Inches	
455	4	29/32	1-1/32
457	4	31/32	1-5/32

Construction: "All-steel" of special manufacture. Handles of 7/16 inch heavy bar.
Finish: Burnished nickel.
Length: Socket, 4 inches. Handle, 5-1/2 inches.
Packing: One in a carton.
Shipping Weight: 10 ounces.
Electrotypes: 13/16 by 1-3/4 inches.

"Ever-Wear" Interchangeable Socket Wrenches

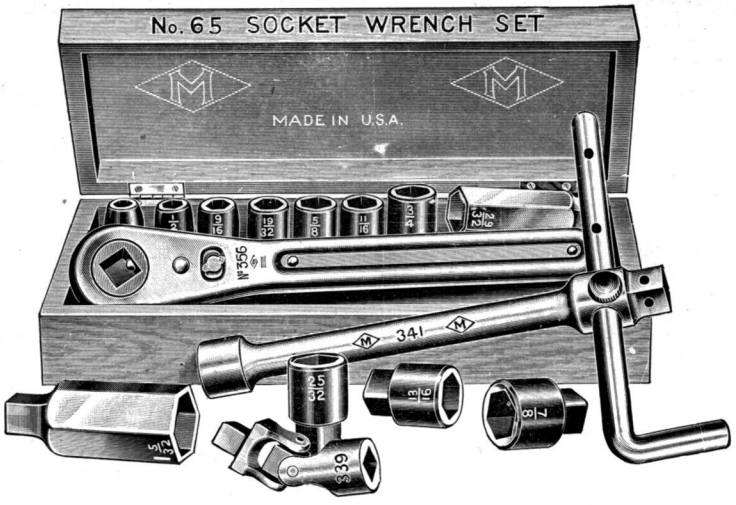
"EVER-WEAR" Sockets!

These newest developments of socket wrenches have these advantages over other types:

1. "Ever-Wear" Sockets are made of a chrome manganese steel, guaranteed by the **steel manufacturer** to withstand the most extraordinary wear, even if improperly fitted to nuts and bolts.
2. Shanks of "Ever-Wear" Sockets are solid and are fitted in all handles from the **exterior** so that spreading of shank is impossible.
3. "Ever-Wear" Sets are actually the equivalent in operation and the superior in construction to solid socket wrenches.

No. 65

"Ever-Wear" Socket Wrench Set



The new "Ever-Wear" Sockets and Units represent the highest sort of engineering, common sense, and the maximum amount of strength, and they promise to replace most other types.

No. 65 Set is the medium priced arrangement.

Contains:

1 Reversible Ratchet Handle No. 356, 12 inches long.
1 Adjustable "Tee" Handle and Extension Unit No. 341, 10 inches high.
1 Universal Joint No. 339.
2 Spark Plug Wrench Sockets:
No. 402—29/32 inch.
No. 422—1-5/32 inches.
10 "Ever-Wear" Hex. Sockets (sizes and fittings in next column).

15 Units.

Size of Box: 12-3/4 by 6-1/2 by 2-1/2 inches.

Packing: Hardwood Cabinet, shipped in corrugated container.

Shipping Weight: 9-1/2 pounds.

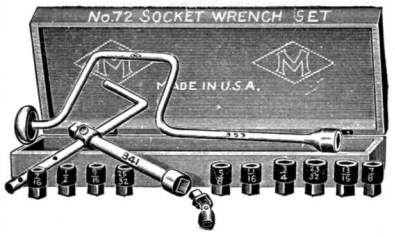
Electrotypes: 3-3/4 by 2-1/2 inches, 2-1/4 by 1-1/2 inches.

List of 10 Hex. "Ever-Wear" Sockets

Socket Opening Size Hex. Inches	U. S. Standard Nuts and Bolt Heads. Bolt Size Inches	S. A. E. Standard Nuts and Screw Heads. Screw Size Inches	Hex. Head Cap Screws. Screw Size Inches
7/16	.....	1/4	1/4
1/2	1/4	5/16	5/16
9/16	.....	3/8	3/8
19/32	5/16	.....	....
5/8	.....	7/16	7/16
11/16	3/8	.....	....
3/4	.....	1/2	1/2
25/32	7/16	.....	....
13/16	.....	.....	9/16
7/8	1/2	9/16	5/8

No. 72

Owners' Car Set



This set is designed for the needs of car owners. Has the ten sizes of sockets, a "Tee" Handle, Speed Brace Handle and Universal Joint.

Contains:

1 No. 353 Speed Brace Handle, fitting all "Ever-Wear" Sockets.

1 Adjustable "Tee" Handle and Extension Unit No. 341, 10 inches high.

1 Universal Joint No. 339.

10 "Ever-Wear" Hex. Sockets (sizes and fittings in table).

13 Units.

Packing: Hardwood Cabinet, shipped in corrugated container.

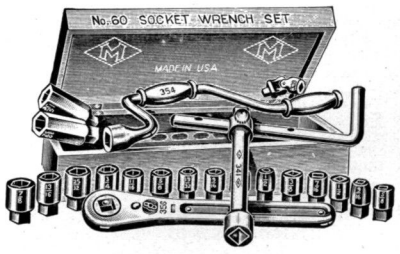
Shipping Weight: 10 pounds.

Electrotypes: 2 by 1-1/8 inches.

"Ever-Wear" Interchangeable Socket Wrenches

No. 60

"Ever-Wear" Socket Wrench Set



This new "Ever-Wear" Socket Wrench Set is the ultimate arrangement of wrenches for constant, every hour use for repairs, assembly, and the hardest work.

These tools are made to withstand the most unreasonable demands and are so warranted.

Your customers have been asking for this—you **should** capitalize the positive need and desire for these overstrong sockets.

1 Reversible Ratchet Handle No. 356, 12 inches long.

1 Adjustable "Tee" Handle and Extension Unit No. 341, 10 inches high.

1 Brace Handle No. 354 with swivel-grip handles at top and throw, 14-1/4 inches long.

1 Universal Joint No. 339.

2 Spark Plug Wrench Sockets:
No. 402—29/32 inch.
No. 422—1-5/32 inches.

15 "Ever-Wear" Sockets:

Hex.: 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8.

Square: 3/8, 7/16, 1/2, 9/16, 5/8.

See table, page 13, for fittings.

Packing: Hardwood Cabinet Box shipped in corrugated carton.

Size of Box: 16 by 7-1/2 by 3-1/4 inches.

Shipping Weight: 13-1/4 pounds.

Electrotypes: 4 by 2-1/2 inches, 2 by 1-1/4 inches.

No. 900 "Ever-Wear" Socket Assortment

A profitable, quick turning business may be developed by the proper use of No. 900 Assortment and the store display.

Contains: 96 Units.

3 No. 352 Offset Handles.

3 No. 356 Reversible Ratchet Handles.

2 No. 339 Universal Joints.

3 No. 341 Adjustable "Tee" Handles and Extension Units.

85 "Ever-Wear" Sockets as follows:

Quan.	Size	Quan.	Size	Quan.	Size
5	7/16	6	11/16	5	15/16
6	1/2	6	3/4	5	31/32
8	9/16	6	25/32	3	1
8	19/32	5	13/16	3	1-1/16
8	5/8	5	7/8	3	1-1/8
				3	1-7/16

Construction: All sockets are the "Ever-Wear" type, made of chrome manganese steel, guaranteed not to split or round out, even if abused. Universal joints, "Tee" handles, offset handles, and ratchet handles are of superior design and workmanship, especially heavy to stand long wear.

4 Drawers: Each drawer has a distinct and definite label of the contents of that drawer.

Size of Cabinet: 10-1/8 by 14-1/2 by 13-3/4 inches.

Packing: Each cabinet shipped with assortment packed ready for display.

Shipping Weight: 85 pounds gross; 62 pounds net.

Electrotypes: 4 by 3-1/2 inches and 2 by 1-3/4 inches.

No. 70

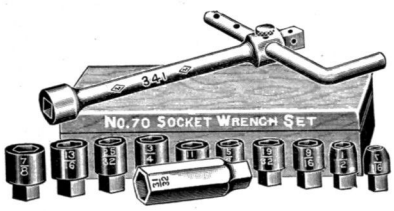
"Ever-Wear" Socket Wrench Set

This set is a smaller arrangement, having the ten sizes of hex. sockets, an Adjustable "Tee" Handle and Extension Unit and a Spark Plug Wrench Socket.

An unusual amount of wrench value at a most low price.

Shipping Weight: 9-1/2 pounds.

Electrotypes: 2 by 1 inch.



Contains:

1 Adjustable "Tee" Handle and Extension Unit No. 341, 10 inches high.

1 Spark Plug Wrench Socket No. 407, 31/32 inch.

10 "Ever-Wear" Hex. Sockets:
7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8.

See table, page 12, for fittings.

Size of Box: 10-3/4 by 5-1/8 by 2-1/2 inches.

Packing: Hardwood Cabinet, shipped in corrugated container.

"Ever-Wear" Interchangeable Socket Wrenches

Actually—"Ever-Wear" Sockets

The Mossberg Company has produced this type of socket to meet the demand—"Give us sockets that will wear, even if abused!"

Consider the specifications:

Construction: Special analysis steel made for this work. Special hardening.

Finish: Gunbarrel blue.

Packing: Twelve of a size in a carton.

Shipping Weight: Average weight, twelve sockets, 3 pounds.

Electrotypes: 1-3/8 by 7/8 inch.

"EVER-WEAR" Hex. Sockets

Socket Opening Size Hex. Inches	U.S.St'd Nuts and Bolt Heads. Bolt Size Inches	S.A.E.St'd Nuts and Screw Heads. Screw Size Inches	Hex. Head Cap Screws. Screw Size Inches
7/16	....	1/4	1/4
1/2	1/4	5/16	5/16
9/16	....	3/8	3/8
19/32	5/16	....	....
5/8	....	7/16	7/16
11/16	3/8	....	....
3/4	....	1/2	1/2
25/32	7/16	....	....
13/16	....	....	9/16
7/8	1/2	9/16	5/8
15/16	....	5/8	....
31/32	9/16	....	....
1	....	11/16	3/4
1-1/16	5/8	3/4	....
1-1/8	....	....	7/8
1-7/16	7/8	1	....

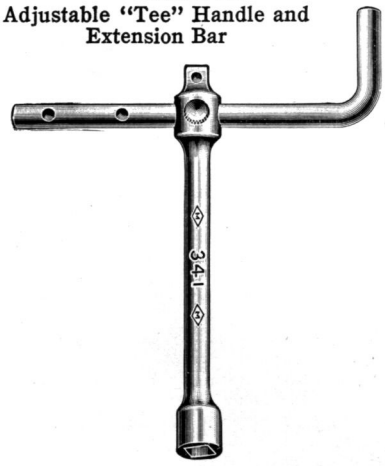
"EVER-WEAR" Square Sockets

Socket Opening Size Square Inches	U.S.St'd Nuts and Bolt Heads. Bolt Size Inches	Sq. Head Coach Screws. Screw Size Inches	Square Head Cap Screws. Screw Size Ins.
3/8	....	1/4	1/4
7/16	....	....	5/16
1/2	1/4	5/16	3/8
9/16	....	3/8	7/16
5/8	5/16	....	1/2

"Ever-Wear" sockets are marked with the dimensions of short diameter of nuts, bolt heads, or screw heads. Clearance is allowed in all sizes over actual marking.

No. 341

Adjustable "Tee" Handle and Extension Bar



This is a strong, heavy combination for work with the Ratchet Handle No. 356, the Brace No. 354, and all "Ever-Wear" sockets.

Construction: Upright, 11/16 inch solid steel bar. Cross Handle, 5/8 inch steel bar.
Finish: Burnished nickel.
Length: 10 inches high, 10 inch cross bar.
Fits: "Ever-Wear" sockets only.
Packing: One in a carton.
Shipping Weight: 2-1/2 pounds.
Electrotypes: 1-7/8 by 2-1/4 inches.

No. 352

Offset Handle for "Ever-Wear" Sockets

Construction: 11/16 inch steel bar of solid, one-piece, forged construction.
Finish: Burnished nickel.
Length: 10-3/4 inches.
Packing: Six in a carton.
Shipping Weight: 6 handles, 9-1/2 pounds.
Electrotypes: 2 by 3/8 inch.

No. 339

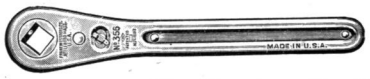
Universal Joint for use with "Ever-Wear" Sockets and Units

Maximum angle allowances for "hard-to-get-at" adjustments.

Construction: Malleable casting.
Finish: Burnished nickel.
Length: 3-3/4 inches.
Packing: 6 in a carton.
Shipping Weight: 6 joints, 6-1/4 pounds.
Electrotypes: 1-1/4 by 5/8 inch.

No. 356

Reversible Ratchet Handle



This Reversible Ratchet Handle follows the very successful type of handles used for years, but is longer and heavier.

Construction: Heavy special steel, properly hardened.
Finish: Nickel plated.
Length: 12 inches.
Fits: Only "Ever-Wear" sockets.
Packing: Individual carton.
Shipping Weight: 1-3/4 pounds.
Electrotypes: 2 by 3/8 inch.

No. 354

Brace Handle for "Ever-Wear" Sockets

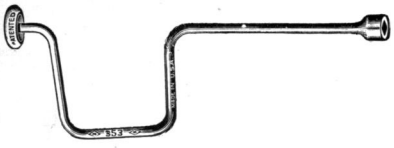
The "chuck" at the end of the brace fits "Ever-Wear" socket shanks from the exterior.

The use of this brace and sockets makes it possible to effect short speed braces, demountable rim wrenches, etc.

Construction: 1/2 inch Steel Bar. Steel Swivel-grip Handles at top and on throw.
Throw: 5-1/4 inches.
Finish: Burnished nickel.
Length: 14-1/4 inches.
Fits: Only "Ever-Wear" sockets.
Packing: 6 in a carton.
Shipping Weight: 6 handles, 11-3/4 pounds.
Electrotypes: 1-7/8 by 3/4 inch.

No. 353

Speed Brace Handle for "Ever-Wear" Sockets



No. 353 is a handle of Speed Brace length which is fitted by Interchangeable "Ever-Wear" Sockets.

Length: 18 inches.
Finish: Burnished nickel.
Packing: 6 in a carton.
Shipping Weight: 6 handles, 12-1/2 pounds.
Electrotypes: 2 by 3/4 inch.

"Ever-Wear" Interchangeable Socket Wrenches

Combinations of "Ever-Wear" Sockets and Units

You and your salesman should study and know the possibilities of "Ever-Wear" Socket Wrenches—the turnover for you warrants it.

Figure 1

No. 356 Reversible Ratchet Handle with No. 339 Universal Joint and "Ever-Wear" Sockets.

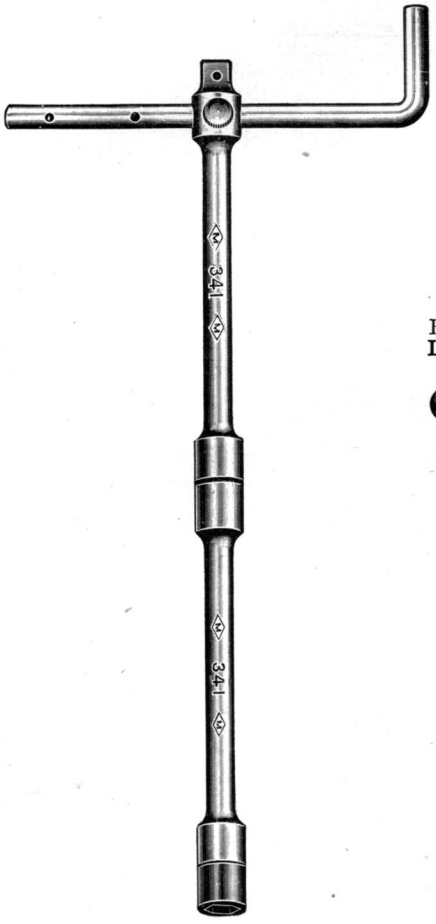


Figure 2

"Ever-Wear" Sockets with No. 341 "Tee" Handle and a duplicate extension and with, or without, Universal Joint.
Length developed with socket: 20-1/2 inches.

Figure 3

"Ever-Wear" Sockets and Offset Reversible Ratchet Handle No. 356.
Length of offset: 11 inches.

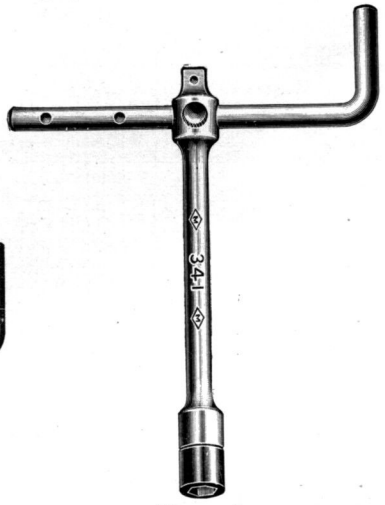


Figure 4

"Ever-Wear" Sockets and No. 341 Extension and "Tee" Handle.
Length with socket: 11 inches.

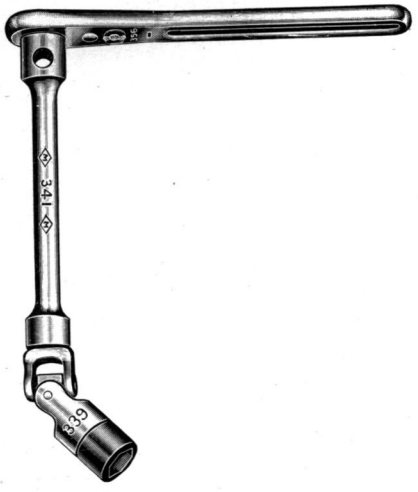


Figure 5

"Ever-Wear" Sockets, No. 341 Extension, No. 339 Universal Joint and No. 356 Ratchet Handle.
Length: 12 inches.

Electrotypes: As illustrated. See pages 12 and 13 for sets.

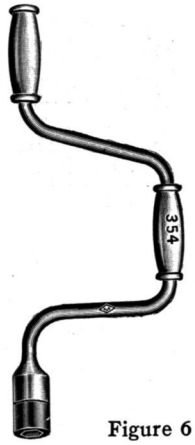


Figure 6

No. 354 Brace Handle with "Ever-Wear" Sockets.
Length with socket: 15-1/2 inches.

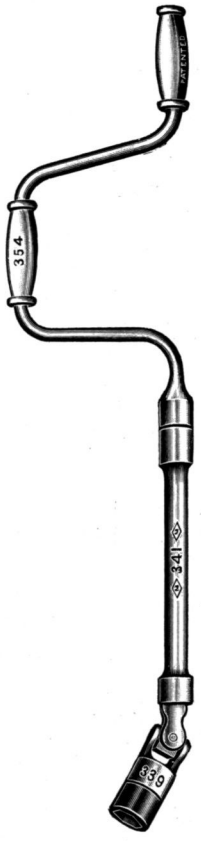


Figure 7

No. 354 Brace Handle with No. 341 Extension, No. 339 Universal Joint and "Ever-Wear" Sockets.
Developed length with socket: 25-3/4 inches.

Mossberg Interchangeable Sockets and Accessories

Small Series Sockets

For owner work there are no wrenches which compare with drawn steel sockets at as low a price, and these Mossberg drawn steel sockets that have been on the market for twenty years are quite guaranteed.

Small Series sockets are marked to exact opening of sockets. The marking of each socket represents the short diameter of nuts, bolt heads and screw heads **plus** the clearance.

Construction: Drawn by pressure from cold rolled steel, thereby retaining the necessary long grain in structure.

Finish: Mottled and lacquered.

Complete List of Small Series Sockets

Hex. Socket Opening Size. Hex. Inches	Fitting: U. S. Standard Nuts and Bolts. Bolt Size Inches	Fitting: S. A. E. Standard Screws. Screw Size Inches	Fitting: Hex. Head Cap Screws. Screw Size Inches
5/16	.....	.....	....
11/32	.....	.....	....
3/8	.....	.....	....
13/32	.....	.....	....
7/16	.....	.....	....
15/32	.....	1/4	1/4
1/2	.....	.....	....
17/32	1/4	5/16	5/16
9/16	.....	.....	....
19/32	.....	3/8	3/8
5/8	5/16	.....	....
21/32	.....	7/16	7/16
11/16	.....	.....	....
23/32	3/8	.....	....
3/4	.....	.....	....
25/32	.....	1/2	1/2
13/16	7/16	.....	....
27/32	.....	.....	9/16
7/8	.....	.....	....
29/32	1/2	9/16	5/8
15/16	.....	.....	....
31/32	.....	5/8	....
1	9/16	.....	....
1-1/32	.....	11/16	3/4
1-3/32	5/8	3/4	....
1-5/32	.....	.....	7/8
1-9/32	3/4	7/8	1

Square Socket Opening Size. Square Inches	Fitting: U. S. Std. Nuts and Bolts. Bolt Size Inches	Fitting: Square Head Set Screws. Inches	Fitting: Square Head Coach Screws. Inches
13/32	.....	3/8	1/4
15/32	.....	7/16	....
17/32	1/4	1/2	5/16
19/32	.....	9/16	3/8
21/32	5/16	5/8	....
23/32	3/8	.....	7/16
25/32	.....	3/4	1/2
29/32	1/2	7/8	9/16
1-1/32	9/16	1	....
1-5/32	.....	.....	3/4
1-9/32	3/4	.....	....

Height: 1-3/4 inches.

Electrotypes: 4 sockets in row, 2-1/8 by 3/4 inch; 1 hex. socket, 11/16 by 13/16 inch.

No. 355
Ratchet Handle

No. 355 is a "junior" handle—built to do the work under all conditions.
Construction: Heavy steel sheet.
Finish: Burnished nickel.
Length: 8 inches.
Packing: One in a carton.
Shipping Weight: 11 ounces.
Electrotypes: 1-7/8 by 3/8 inch.

No. 322
Double-end Offset Handle

A small assortment of sockets and this handle will earn their cost in a day.

Socket wrenches are standard and Mossberg has standardized sockets.
Construction: 1/2 inch Special Steel Bar.
Finish: Burnished nickel.
Length: 10 inches.
Packing: Twelve in a carton.
Shipping Weight: Twelve wrenches, 8-1/2 pounds.
Electrotypes: 2 by 7/16 inch.

No. 351
Extension Bar

A **good** extension bar in socket work is absolutely essential to reach out-of-the-way places and to employ universal joints and other helpful units.
Construction: Steel tube.
Finish: Burnished nickel.
Length: 9-1/2 inches.
Packing: Twelve in a carton.
Shipping Weight: Twelve bars, 8-1/4 pounds.
Electrotypes: 2 by 3/16 inch.

Spark Plug Sockets to use with various handles

In all the socket sets there are handles of various types—ratchet, offset, "Tee" and speed brace handles that fit these sockets.

And spark plugs are so important a part of your car that they deserve good treatment.

No.	Length Inches	Hex. Opening Inches
402	3-11/16	29/32
407	3-11/16	31/32
412	3-11/16	1-1/32
422	3-11/16	1-5/32

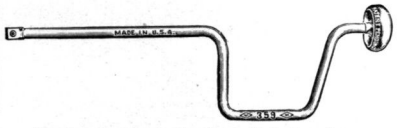
Construction: "All-steel" of special manufacture. Handles of 1/2 inch heavy bar.
Finish: Mottled and lacquered.
Length: 3-11/16 inches.
Packing: One in a carton.
Shipping Weight: 10 ounces.
Electrotypes: 1-1/4 by 3/8 inch.

No. 350
Reversible Ratchet Handle

No. 350 is the reversible ratchet handle that is responsible for the general adoption of interchangeable sockets.

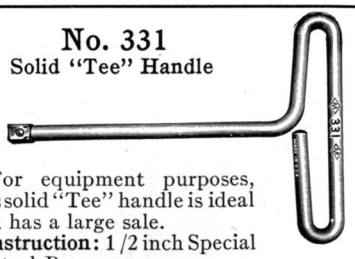
It is light in weight, of good leverage and strong beyond all needs.
Construction: Heavy steel sheet.
Finish: Buffed nickel.
Length: 10 inches.
Packing: One in a carton.
Shipping Weight: 18 ounces.
Electrotypes: 2 by 3/8 inch.

No. 359
Speeder Type Handle for Interchangeable Sockets



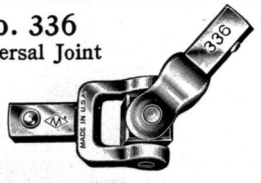
A speeder handle for all interchangeable sockets and with these sockets, the handle produces speed brace wrenches of sizes from 5/16 to 1-9/32 inches.
Construction: Special 1/2 inch Steel Bar.
Finish: Burnished nickel.
Length: 18-1/4 inches.
Packing: Six in a carton.
Shipping Weight: Six handles, 9-1/2 pounds.
Electrotypes: 2 by 9/16 inch.

No. 331
Solid "Tee" Handle



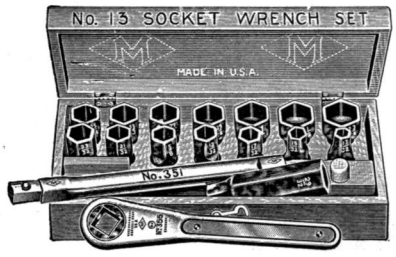
For equipment purposes, this solid "Tee" handle is ideal and has a large sale.
Construction: 1/2 inch Special Steel Bar.
Finish: Burnished nickel.
Width: 7-1/2 inches
Length: 11 inches.
Packing: Six in a carton.
Shipping Weight: Six handles, 9-1/2 pounds.
Electrotypes: 1-1/4 by 1-3/4 inches.

No. 336
Universal Joint



No. 336 enables adjustments to be made, otherwise impossible to reach.
Fits: Handles, sockets and bars.
Finish: Burnished nickel.
Electrotypes: 1-3/8 by 3/4 inch.

No. 13
Socket Wrench Set

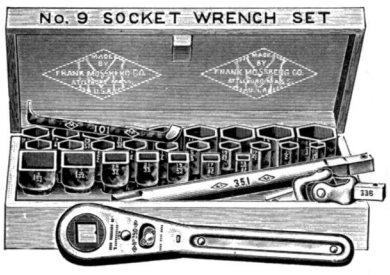


The No. 13 set is a well stocked item and generally is used with No. 14 and one other set to give a line of socket sets to offer to the trade.

Contains:
- No. 355 Ratchet Handle, 8 in. long.
- No. 351 Extension Bar, 9-3/8 in. long.
- 15 Sockets of steel: hex. openings, 13/32, 15/32, 17/32, 19/32, 5/8, 21/32, 23/32, 25/32, 13/16, 27/32, 29/32, 1, 1-1/32, and 1-3/32 inches. See table on page 16 for fittings.
- One 29/32 inch Hexagon Spark Plug Socket, No. 402, 4 inches long.

Construction: "All-steel." Box of selected chestnut, cabinet finish.
Size of Box: 12 by 6 by 3-1/4 inches.
Packing: Each box in corrugated container.
Shipping Weight: 5-1/4 pounds.
Electrotypes: 2 by 1-1/4 inches.

No. 9
Socket Wrench Set



The one set that is designed to be used for millwright work and by blacksmiths in mill and carriage repairs and assembly.

Square bolts and nuts are fitted evenly by these sockets and with the power applied on all four sides of the bolt or nut or screw, the business of taking down or setting up machines, pulleys and fixtures can be performed quicker and with less effort than with other types of wrenches. The use of sockets with the ratchet handle exceedingly cuts down the cost of repair and assembly work.

Packing: Each box in corrugated container.
Shipping Weight: 8-1/2 pounds.
Electrotypes: 2 by 1-3/4 inches, 2-1/2 by 1-5/8 inches.

No. 10
Socket Wrench Set

One of the group of Mossberg Socket Sets that has proved by years of record of sales and by general satisfaction to users that socket wrenches are standard and actually replacing other types of wrench tools. Include this in your stock because the great value and the medium price justify the large sale.

Contains:
- No. 350 Reversible Ratchet Wrench, 10 inches long.
- No. 351 Extension Bar, 9-1/2 inches long.
- No. 336 Universal Joint.
- No. 101 Double-end Offset Screw Driver.
- 21 Sockets of guaranteed quality: hex.: 15/32, 1/2, 17/32, 19/32, 5/8, 21/32, 11/16, 23/32, 25/32, 13/16, 27/32, 7/8, 29/32, 31/32, 1, 1-1/32, 1-3/32, 1-5/32, and 1-9/32 inches. See table on page 16 for fittings.
- Two Special Hexagon Spark Plug Sockets:
- No. 402, 4 inches long, 29/32 inch opening.
- No. 422, 4 inches long, 1-5/32 inch opening.
- Fitting Standard Spark Plugs.

Construction: "All-steel." Box of selected chestnut, cabinet finish.
Size of Box: 13 by 7 by 3 inches.
Packing: Each box in corrugated carton.
Shipping Weight: 7-3/4 pounds.
Electrotypes: 2-1/2 by 1-3/4 inches, 2 by 1-1/2 inches.

Contains:
- No. 350 Reversible Ratchet Handle, 10 inches long.
- No. 351 Extension Bar, 9-3/8 inches long.
- No. 336 Universal Joint.
- No. 101 Double-End Offset Screw Driver.
- Twenty-six Guaranteed Sockets: hex. 15/32, 1/2, 17/32, 19/32, 5/8, 21/32, 11/16, 23/32, 25/32, 13/16, 27/32, 7/8, 29/32, 31/32, 1, 1-1/32, 1-3/32, 1-5/32, and 1-9/32 inches. Square: 13/32, 17/32, 19/32, 21/32, 25/32, 1-1/32 and 1-5/32 inches. See table on page 16 for fittings.

Construction: "All-steel." Box of selected chestnut, cabinet finish.
Size of Box: 13 by 7 by 3 inches.

No. 14
"Complete-est" Socket Wrench Set

An open No. 14 set on your counter is an excellent display of socket wrenches.

It is the fastest moving single item in all the Mossberg line of sockets and is the easiest to sell.

A full line of engineers' open-end wrenches is included—these are for close work, and are thin-model construction.

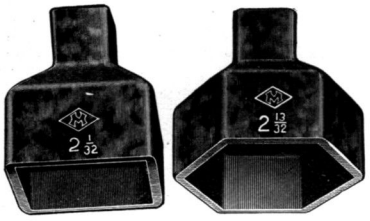
The set is cleverly packed in a fine hardwood cabinet box with a tray compartment so that every tool is in its place at all times.

Contains:
- No. 350 Reversible Ratchet Handle, 10 inches long.
- No. 330 Solid "Tee" Handle, 10 inches high.
- No. 320 Offset Handle, 10 inches long.
- No. 351 Extension Bar, 9-1/2 inches long.
- No. 77 Combination Pliers, 6 inches long.
- Five Engineers' Open-end Wrenches: 10 Openings, 5/16, 3/8, 1/2, 7/16, 9/16, 5/8, 3/4, 7/8, 15/16, 1 inch.
- No. 336 Universal Joint.
- No. 101 Double-end Offset Screw Driver.
- Three sizes spark plug sockets.
- No. 402 opening **29/32** inch hex.
- No. 407 opening **31/32** inch hex.
- No. 422 opening **1-5/32** inch hex.
- Thirty-seven guaranteed steel sockets: hex.: 5/16, 3/8, 13/32, 7/16, 15/32, 1/2, 17/32, 19/32, 5/8, 21/32, 11/16, 23/32, 25/32, 13/16, 27/32, 7/8, 29/32, 31/32, 1, 1-1/32, 1-3/32, 1-5/32 and 1-9/32 inches. Square: 13/32, 15/32, 17/32, 19/32, 21/32, 23/32, 25/32, 29/32, 1-1/32, 1-5/32, 1-9/32 inches. See table on page 16 for fittings.

Construction: "All-steel." Box of hardwood, cabinet finish.
Size of Box: 17 by 9-1/2 by 4-1/4 inches.
Packing: Each set in corrugated carton.
Shipping Weight: 17-1/2 pounds.
Electrotypes: 3-3/4 by 3-3/4 inches, 2 by 2 inches.

Interchangeable *Large* Series Sockets

Large Series Sockets



These *Large* Series Sockets and Handles are particularly useful for
—steel erectors
—bridge contractors
—battleship builders
—truck operators
—machine assembly
—locomotive repair
and countless other users of large bolts, nuts and screws.

The fact is proven by laboratory experiments and practical tests that sockets for wrenches are best when drawn and formed into their shapes from cold steel. The **kind** of steel is next important and then the thickness of walls.

All of these factors are in the design and manufacture of Mossberg sockets.

The *Large* Series Sockets begin in sizes where the smaller sockets end—and fit up to 1-1/2 inch bolts.

Construction: Drawn by pressure from cold sheet steel, thereby retaining the long grain.

Finish: Mottled and lacquered.

Electrotypes: Each **socket,** 1 by 1-1/16 inches.

Complete List of *Large* Series Sockets

Hexagon

Socket Opening Size Hex. Inches	U. S. Standard Bolt Size Inches	S. A. E. Standard Screw Size Inches	Decimal Equivalents Inches
29/32	1/2	9/16	.906
1- 3/32	5/8	3/4	1.093
1- 9/32	3/4	7/8	1.281
1-15/32	7/8	1	1.469
1-21/32	1	1-1/8	1.656
1-27/32	1-1/8	1-1/4	1.844
2- 1/32	1-1/4	1-3/8	2.032
2- 7/32	1-3/8	1-1/2	2.219
2-13/32	1-1/2	....	2.406

Square

Socket Opening Size Square Inches	U. S. Standard Bolt Size Inches	Square Head Set Screws Screw Size Inches	Decimal Equivalents Inches
29/32	1/2	7/8	.906
1- 3/32	5/8	....	1.093
1- 9/32	3/4	1-1/4	1.281
1-15/32	7/8	....	1.469
1-21/32	1	....	1.656
2- 1/32	1-1/4	....	2.032

No. 357

Ratchet Socket Wrench Handle

To properly use *Large* Series Sockets, the No. 357 ratchet handle is made of heavy steel with a leverage length of **eighteen** inches; every part is proportionally sized to give the great strength necessary.
Construction: Heavy plate steel.
Finish: Black.
Length: 19-1/2 inches.
Packing: Individual carton.
Shipping Weight: 5 pounds.
Electrotypes: 2 by 7/16 inch.

No. 324

Offset Socket Handle

An offset handle of great strength to give the leverage necessary to set up large nuts and bolts which large series sockets fit.
Construction: 11/16 inch heavy Steel Bar.
Finish: Black.
Length: 15 inches.
Packing: Six in a carton.
Shipping Weight: Six handles, 10 pounds.
Electrotypes: 1-7/8 by 7/16 inch.

No. 349

Extension Bar—Long

With the ratchet handle, the No. 349 Extension gives a vertical clearance over obstructions of **eighteen** inches. In other words, it is eighteen inches long.
Construction: Heavy steel tubing.
Finish: Black.
Length: 18 inches.
Packing: Six in a carton.
Shipping Weight: Six bars, 17 pounds.
Electrotypes: 2 by 3/8 inch.

No. 348

Extension Bar—Short

For clearance over any obstructions, these extensions are invaluable and bring the work quickly accessible. No. 348 is the shorter—ten inches long.
Construction: Heavy steel tubing.
Finish: Black.
Length: 10 inches.
Packing: Six in a carton.
Shipping Weight: Six bars, 10 pounds.
Electrotypes: 1-1/4 by 3/8 inch.

No. 20

Large **Series Socket Wrench Set**

A complete set of *Large* Series Sockets and Handles is very generally in demand by millwrights, blacksmiths, shipwrights and steel erectors.

So No. 20 is this complete set—in fact, it is the only set made anywhere that will do this work.

Motor truck operators, especially those on long hauls, make them a part of their equipment.

Contains:
No. 357 Ratchet Socket Handle, 18 inches long.
No. 324 Offset Socket Handle, 15 inches long.
No. 348 Extension, 10 inches long.
No. 349 Extension, 18 inches long.
No. 337 Universal Joint.
No. 338 Connection Bushing, for allowing use of *Small* Series Sockets with these handles.
Fifteen Drawn Sockets—*Large* Series, viz.:
Complete List of *Large* Series Sockets in No. 20 Set.

Construction: All heavy steel. Box of selected chestnut.
Size of Box: 21-1/4 by 9-1/2 by 5-1/4 inches.
Packing: Each box in corrugated container.
Shipping Weight: 26-1/2 pounds.
Electrotypes: 3-3/16 by 1-1/2 inches, 2 by 1 inch.

No. 344

Reconciling Unit for adapting *Large* Series Sockets with *Small* Series Handles.

No. 338

Reconciling Unit so that *Small* Series Sockets may be used with *Large* Series Handles.

No. 337

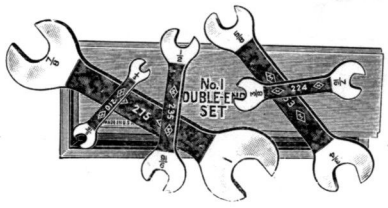
The Universal Joint which actually makes adjustments possible—"around a corner."
Finish: Burnished nickel.
Electrotypes: 1-3/8 by 3/4 inch.

Mossberg Double-End Wrenches

No. 1

General Service Set

Long sold as a medium priced set of "engineer's" wrenches with a long established sale and turnover.



The logical way to market open-end wrenches for motor and implement trade is to offer them in sets—made up from the experience of demand.

No. 1 contains 5 wrenches, 10 openings.

No.	Wrench Opening Sizes Inches	Length Inches	Thickness Inches
210	**1/4 & 5/16**	3-1/4	5/32
224	**3/8 & 7/16**	4	5/32
235	**1/2 & 9/16**	4-3/4	7/32
253	**5/8 & 3/4**	6-7/8	1/4
275	**7/8 & 1**	8-3/4	9/32

No. 1 is a general set which will actually do all ordinary work on nuts, bolt heads and screws of 1/8 to 9/16 inch diameter.

Construction: All special steel.

Finish: Furnished in
(a) Semi-finished.
(b) Full-finished.

Size of box: 9-1/2 by 3-1/4 by 1-5/8 inches.

Packing: Natural wood box, sliding cover.

Shipping Weight: 2 pounds.

Electrotypes: 2 by 1 inch.

Description of MOSSBERG Open-End Wrenches

Type of **Full-finished.** Hardened and tempered, mottled finish, edges round, openings accurate to size, heads bright and lacquered.

Type of **Semi-finished.** Hardened and tempered, mottled finish, edges square, openings to size.

All wrenches of Mossberg manufacture are properly hardened.

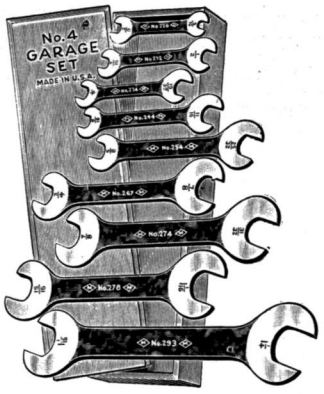
Mossberg Open-End Wrenches of the above type can be furnished with various combinations of openings as indicated in the table below. They are not carried in stock, but can be made up in quantities of not less than 100 of any one size, in from one to two weeks time.

Mossberg Open-End Wrenches are used for equipment by many gas engine and implement houses. Different combinations are easily made and the shape and thin-model type make these wrenches very desirable for this work.

No. of Series	Range of Combinations Within Each Series	Length Inches	Thickness Inches
210	**1/4 to 5/16**	3-1/4	5/32
220	**1/4 to 13/32**	4	5/32
230	**3/8 to 19/32**	4-3/4	7/32
240	**1/2 to 11/16**	5-3/4	7/32
250	**9/16 to 13/16**	6-7/8	1/4
260	**5/8 to 29/32**	8	1/4
270	**3/4 to 1-1/16**	8-3/4	9/32
280	**3/4 to 1-1/8**	9-7/8	9/32
290	**7/8 to 1-1/4**	11	9/32
370	**1-1/16 to 1-1/2**	13-1/2	11/32
380	**1-1/4 to 1-5/8**	15-1/2	13/32

No. 4

Garage Set



9 Wrenches, 18 Openings

One opening of each wrench fits U. S. bolts and the other opening of the **same** wrench fits the S. A. E. cap screws of the **same** dimension; for instance, No. 267 fits the bolt head of a 1/2 inch U. S. bolt and a 1/2 inch S. A. E. screw head.

The range of sizes covers bolts and screws up to 3/4 inch bolt and screw diameter. Offset at 15°.

Thin model for clearance. No. 4 set contains all wrenches for all general work.

Wrench No.	Wrench Opening Sizes Inches	Length Inches	Thickness Inches
220	**5/16 & 3/8**	4	5/32
232	**1/2 & 7/16**	4-3/4	7/32
234	**19/32 & 1/2**	4-3/4	7/32
244	**11/16 & 9/16**	5-3/4	7/32
254	**25/32 & 5/8**	6-7/8	1/4
267	**7/8 & 3/4**	8	1/4
274	**31/32 & 7/8**	8-3/4	9/32
278	**1-1/16 & 15/16**	8-3/4	9/32
293	**1-1/4 & 1-1/16**	11	9/32

Construction: Special analysis steel.

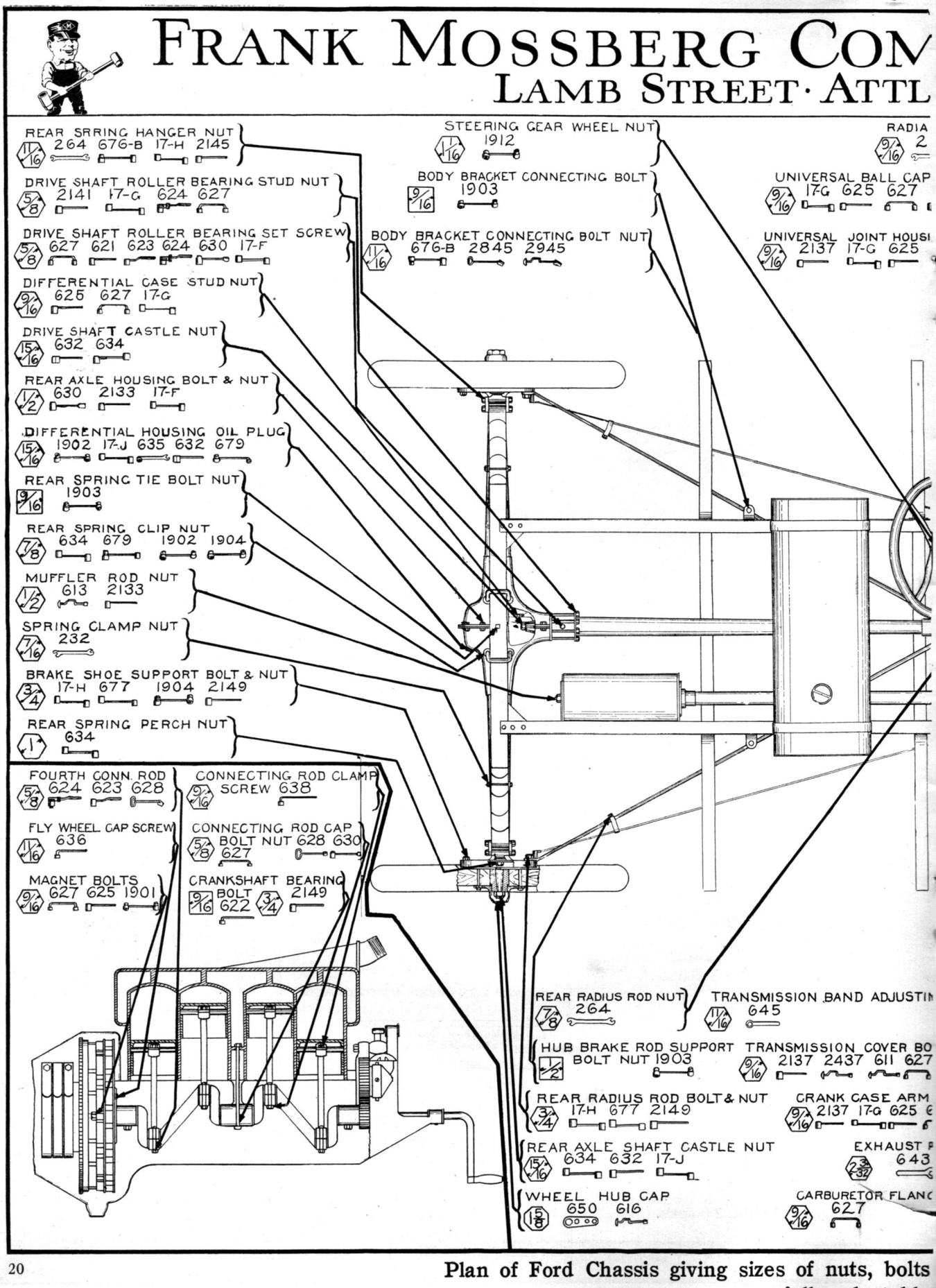
Finish: No. 4 set is furnished in two finishes.
(a) Semi-finished.
(b) Full-finished.

Packing: Natural wood box, sliding cover.

Size of box: 11-7/8 by 4-3/4 by 2 inches.

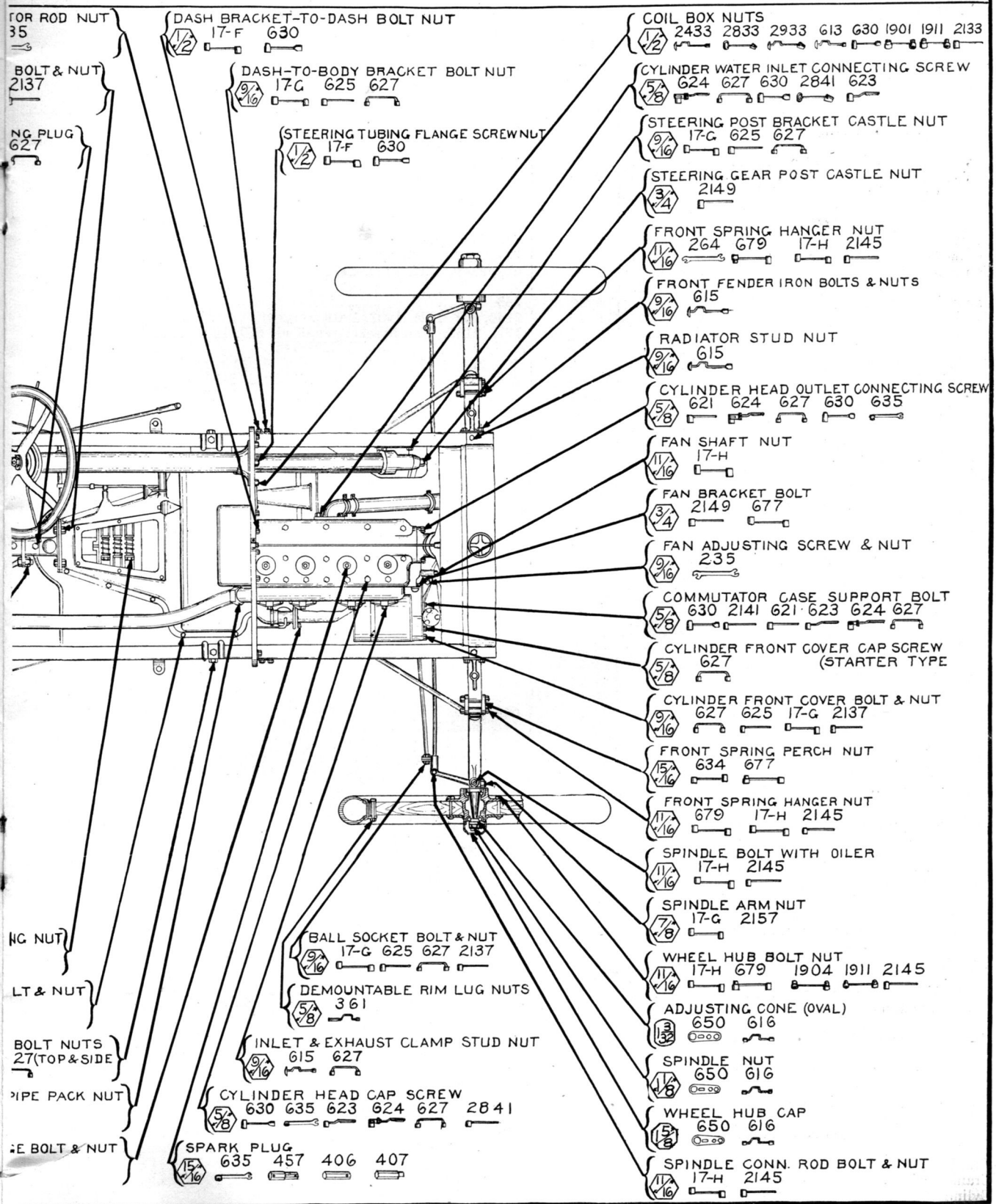
Shipping Weight: 4-3/4 pounds.

Electrotypes: 1-5/8 by 2 inches.


FRANK MOSSBERG COM
LAMB STREET · ATTL
REAR SRRING HANGER NUT 11/16 264 676-B 17-H 2145
DRIVE SHAFT ROLLER BEARING STUD NUT 5/8 2141 17-G 624 627
DRIVE SHAFT ROLLER BEARING SET SCREW 5/8 627 621 623 624 630 17-F
DIFFERENTIAL CASE STUD NUT 9/16 625 627 17-G
DRIVE SHAFT CASTLE NUT 15/16 632 634
REAR AXLE HOUSING BOLT & NUT 1/2 630 2133 17-F
DIFFERENTIAL HOUSING OIL PLUG 15/16 1902 17-J 635 632 679
REAR SPRING TIE BOLT NUT 9/16 1903
REAR SPRING CLIP NUT 7/8 634 679 1902 1904
MUFFLER ROD NUT 1/2 613 2133
SPRING CLAMP NUT 7/16 232
BRAKE SHOE SUPPORT BOLT & NUT 3/4 17-H 677 1904 2149
REAR SPRING PERCH NUT 1 634
STEERING GEAR WHEEL NUT 1 1/16 1912
BODY BRACKET CONNECTING BOLT 9/16 1903
BODY BRACKET CONNECTING BOLT NUT 11/16 676-B 2845 2945
RADIA 9/16 2
UNIVERSAL BALL CAP 9/16 17-G 625 627
UNIVERSAL JOINT HOUSI 9/16 2137 17-G 625
FOURTH CONN. ROD 5/8 624 623 628
CONNECTING ROD CLAMP SCREW 9/16 638
FLY WHEEL CAP SCREW 1 1/16 636
CONNECTING ROD CAP BOLT NUT 5/8 628 630 627
MAGNET BOLTS 9/16 627 625 1901
CRANKSHAFT BEARING BOLT 9/16 622 3/4 2149
REAR RADIUS ROD NUT 7/8 264
TRANSMISSION BAND ADJUSTIN 1 1/16 645
HUB BRAKE ROD SUPPORT BOLT NUT 1/2 1903
TRANSMISSION COVER BO 9/16 2137 2437 611 627
REAR RADIUS ROD BOLT & NUT 3/4 17-H 677 2149
CRANK CASE ARM 9/16 2137 17-G 625
REAR AXLE SHAFT CASTLE NUT 15/16 634 632 17-J
EXHAUST P 23/32 643
WHEEL HUB CAP 1 5/8 650 616
CARBURETOR FLANC 9/16 627

Plan of Ford Chassis giving sizes of nuts, bolts especially adaptable

IPANY—*WRENCHSMITHS*
EBORO·MASS U.S.A.



and screw heads, and Mossberg wrenches for each fitting.

Complete Reference of MOSSBERG Wrenches for all Work on FORD Cars

PART NAME	Size Across Flats on Nuts	Mossberg Wrenches to fit
BODY PARTS		
Body bracket connecting bolt	9/16 sq.	**1903**
Body bracket connecting bolt nut	11/16	**679, 2845, 2945, 2445** Running board apron off: 17H, 1904, 1911, 2145
Dash bracket-to-dash bolt nut	1/2	**17F, 630, 2133,** 1901, 2833, 2933, 613, 2433
Dash-to-body bracket bolt nut	9/16	**17G, 625, 627, 677,** 1901, 2137
CARBURETOR ATTACHMENTS		
Carburetor flange bolt and nut	9/16	**627**
COMMUTATOR		
Commutator case support bolt	5/8	**630, 2141,** 623, 627, 624
Commutator contact point nut	7/16	**224**
Commutator lock nut	3/4	**677, 2149, 17H,** 1902, 1904
FAN		
Fan adjusting screw and nut	9/16	**235**
Fan bracket bolt	3/4	**2149, 677,** 17H, 1902, 1904
Fan shaft nut	11/16	**17H, 2145.** Fan bracket removed: 679, 1904, 1911
FENDERS		
Fender eye bolt nut	11/16	**244, 240,** 2845, 2945
Front fender apron-to-frame bolt nut	1/2	**17F, 630, 2133,** 1901, 1911, 2833, 2933, 2433
Front fender iron bolts and nuts	9/16	**615,** 2237, 2837, 17G, 625, 627, 1901, 2137
Rear fender iron bolt nut (touring and sedan)	9/16 sq.	**244,** 1903
(runabout and coupe)	1/2	**17F, 630, 2133,** 1911, 1901, 2833, 2333
FRONT AXLE		
Adjusting cone (right and left)	Oval	**650, 616**
Ball socket bolt and nut	9/16	**625, 17G, 627, 2137,** 1901
Demountable rim bolt nut	5/8	**361,** 2241, 623, 624, 630, 635, 627, 1901
Radius rod ball cap stud nut	9/16	**627, 625, 2137, 17G,** 2837, 2937, 2237, 1901, 2337
Spindle arm nut	7/8	**17J, 2157,** 679, 1902, 1904, 1912
Spindle bolt nut	3/4	**17H, 2149, 677, 1902,** 1904, 2849, 2949
Spindle bolt with oiler	11/16	**679, 17H, 2145,** 1904, 1911
Spindle connecting rod bolt and nut	11/16	**679, 17H, 2145,** 1904, 1911
Spindle nut (right and left)	1-1/8	**650, 616**
Steering yoke clamp bolt nut	11/16	**679, 17H, 2145,** 1904, 1911
Wheel hub bolt nuts	11/16	**679, 2145, 17H, 1904, 1911**
GASOLINE TANK		
Feed pipe pack nut	5/8	**253**
Gas tank support-to-clamp bolt	1/2	**2833, 2933**
Gas tank support-to-frame bolt	9/16	**235**
HEAD LAMPS		
Head lamp rim remover tool		**649**
MAGNETO		
Fly wheel cap screws	11/16	**636**
Magnet bolts	9/16	**638.** By removing fly wheel: **17G, 625, 627, 677, 1901, 2137,** 611, 2437, 2837, 2937, 1903, 2237, 2337
Magneto contact screw nut	7/16	**224**
MISCELLANEOUS		
Coil box nuts	1/2	**2433, 613,** 2333, 2233, 2833, 2933, 630
Demountable rim lug nuts	5/8	**361**
Spark plug	15/16	**635, 457**
Tire holder bracket-to-body bolt and nut	1/2	On bottom: **2833,** 2933. On side: **630, 17F, 1911, 1901, 2133,** 2233, 2333, 2433, 2833, 2933
Windshield hinge nuts (Previous to 1922)	5/8	**17G, 625, 627,** 635, 2141, 623, 624, 2241
MOTOR		
Cam shaft bearing set screw	9/16	**625, 677, 2137.** Engine pan removed: 627. Intake manifold removed: 2837, 2937
Connecting rod cap bolt nut	5/8	**628, 624, 629, 623,** 2241, 2341, 2441, 1901, 17G, 627, 630, 612
Connecting rod clamp screw	9/16	**638,** 2837, 2337
Crank case and cylinder cover cap screws	9/16	**625, 627,** 2137, 17G, 677. Radiator removed: 615, 611, 2337, 2437, 2837, 2937
Crank case arm bolt nuts, top and sides	9/16	**2137, 17G, 625, 627, 677,** 1901. Body and apron removed: 2837, 2937, 615, 611, 2437, 2237, 2337
Crank case front bearing and spring clip nut	3/4	**253.** Radiator removed: 17H, 2149, 677, 1902, 1904, 2249, 2349, 2449, 2849, 2949
Crank case front bearing screw	5/8	Radiator removed: **624, 627, 17G, 623, 2141,** 612, 1901, 2241, 2341, 2441, 2841, 2941
Crank case lower cover screw	1/2	**17F, 630, 2133, 613,** 2233, 2333, 1901, 1911, 2833. Motor out: 2433, 2933.
Crank shaft bearing bolt (center and front)	9/16 sq.	**620.** Motor on bench: 619, 622
Crank shaft rear bearing bolt and nut	3/4	Motor on bench: 17H, 2149, 677, 1902, 1904
Cylinder cover and crank case bolt and nut	9/16	**17G, 625, 677,** 627, 2137, 1901
Cylinder front cover bolt and nut	9/16	**627, 625, 17G, 2137,** 1901, 615

Complete Reference of MOSSBERG Wrenches for all Work on FORD Cars

PART NAME	Size Across Flats on Nuts	Mossberg Wrenches to fit
MOTOR (Continued)		
Cylinder front cover cap screws	9/16	**17G, 625, 627, 2137,** 677, 1901
Cylinder front cover cap screw (starter type)	5/8	**627,** 623, 624, 635, 612
Cylinder head cap screws	5/8	**635, 630, 627, 623,** 624, 612, 1901, 2141, 2941, 2241 2341, 2441, 628, 2841, 629
Cylinder head cap screws (last two under dash)	5/8	**635**
Cylinder head outlet connecting screws	5/8	**635, 630, 627, 624,** 1901, 2141
Cylinder valve cover screw	9/16	**625, 2837, 2937,** 1901, 17G, 677. Fender removed: 615, 611, 2437, 2337
Cylinder water inlet connecting screw	5/8	**624, 627, 630, 2841, 623,** 628, 629, 2941, 612, 2141, 17G, 635, 2341
Engine pan and hood board bolt nut	1/2 sq.	**232, 1903**
Exhaust pipe pack nut	2-3/32	**643**
Inlet and exhaust clamp stud nut	9/16	**627, 2837, 2937, 625,** 1901, 17G, 2137, 2237. Fender removed: 615, 611, 2337, 2437
MUFFLER		
Muffler head retainer bolt and nut	9/16	**2137, 625, 627,** 17G, 1901, 2337, 2437, 2837, 2937, 611
Muffler rod nut	1/2	**613, 2433, 2333,** 2933, 2833, 17F, 630, 2133, 1901
RADIATOR		
Radiator rod nut	9/16	**235**
Radiator stud nut	9/16	**615,** 625, 627, 677, 1901, 1903, 2137, 2837, 2937, 17G
REAR AXLE		
Brake shoe support bolt and nut	3/4	**17H, 677, 2149,** 1904
Differential case stud and nut	9/16	**625, 627, 17G,** 677, 2137, 2237, 2337, 2437, 2837, 2937
Differential drive gear screws	1/2	**630, 17F, 2133,** 1911, 2233, 2333, 2433, 2833, 2933
Differential housing oil plug	15/16	**635,** 17J, 679, 1902
Drive shaft castle nut	15/16	**634, 679, 17J,** 650, 635
Drive shaft roller bearing set screw	5/8	**627, 623, 630,** 624, 17G, 635, 2141, 2241
Drive shaft roller bearing stud nut	5/8	**2141, 17G, 627, 635, 624,** 1901
Rear axle housing bolt and nuts	1/2	**630, 2133, 17F**
Rear axle shaft castle nut	15/16	**634, 17J, 679,** 1902, 650, 635
Rear radius rod bolt and nut	3/4	**17H, 677, 2149,** 1904, 1902
Rear radius rod nut	7/8	**275**
Universal joint housing plug	9/16	**2137, 625, 627, 17G, 677,** 1901, 2237, 2337, 2437, 2837
RUNNING BOARDS AND SHIELDS		
Running-board-to-front fender bolt andnut	1/2	**630, 17F, 1901,** 1911, 2133, 2333, 2233, 2833
Running-board-to-rear fender nut	1/2	**630, 17F, 1901,** 1911, 2133, 2233, 2333, 2833
Truss rod nuts (Previous to 1923)	11/16	**264**
SPRINGS		
Front and rear spring hanger nuts	11/16	**17H, 2145, 679,** 1904, 1911
Front spring clip nut, 1922 and 1923	7/8	**2157, 17J, 1902, 1904,** 2357, 2857
Previous	3/4	**253.** Radiator removed: 17H, 2149, 677, 1902, 1904, 2249, 2349
Front spring perch nut	15/16	**634, 679, 17J, 1902,** 635
Front spring tie bolt nut	19/32 sq.	**234**
Rear spring clip nut	7/8	**679, 1902, 1904, 17J, 2157,** 2257
Rear spring perch nut	1	**634, 1902**
Rear spring tie bolt nut	9/16 sq.	**1903**
STEERING GEAR		
Ball and socket joint nut	9/16	**625, 627, 677, 17G, 2137, 1901**
Steering gear post castle nut	3/4	**2149, 677, 17H, 1904**
Steering gear wheel nut	1-1/16	**1912**
Steering post bracket bolt and nut	9/16	**17G, 625, 627, 1901,** 2237, 2337, 2437, 2837, 2937
Steering tubing flange screw nut	1/2	**17F, 630, 1901, 2133,** 2333, 2433, 2833, 2933
TRANSMISSION		
Brake and reverse support bolt and nut	9/16	**627,** 2237, 2837
Clutch lever screw and nut	9/16	**244**
Clutch pedal support bolt	9/16	**627,** 2237
Controller shaft bracket bolt nut	1/2	**613, 630, 17F,** 2333, 2433, 2833, 2933, 2233, 2133
Hub brake rod support bolt nut	1/2 sq.	**1903**
Slow speed connection lock nut	1/2	**235**
Transmission band adjusting nut	11/16	**645**
Transmission band adjusting screw and nut	15/16	**635, 278**
Transmission clutch disc drum set screw	3/8 sq.	224
Transmission cover bolt and nut	9/16	**2137, 625, 17G, 677, 627,** 1901, 611, 2437, 2337, 2937, 2837
Transmission cover screws	9/16	**2137, 625, 17G, 677, 627,** 1901, 611, 2437, 2337, 2937, 2837
Universal ball cap bolt and nut	9/16	**17G, 625, 627, 2137, 677, 1901**
WHEELS		
Wheel hub cap	1-5/8	**616, 650**

Mossberg Standard Wrenches for Fords

Assortment contains 80 wrenches

This display stand, though of no cost to you, will turn over more wrenches at less cost than other salesmen. No. 600 is on the job **every minute.**

It is well built and harmonizes with your salesroom fixtures.

The quantity of each wrench (22 different types) is not a stock but simply an assortment and a complete one with which the dealer in accessories may safely start in a very profitable department.

Store Display Stand Description:

Construction: Cabinet work with three coats of finish. Second growth chestnut.

Hooks: Each pair holds two wrenches. Hooks are nickeled.

Finish: Natural grain.

Size: 20 inches wide by 66 inches high. Easel back.

Price: Free with complete assortment.

Assortment Descriptions:

Construction: All bar items of heavy 1/2 inch steel. Crowfoot wrenches are forged from solid steel.

Finish: Burnished nickel.

Packing: Durable carton.

Shipping Weight: Board and Assortment, 157 pounds.

Electrotypes: 1-1/2 by 4-3/4 inches, and 1-1/4 by 4 inches.

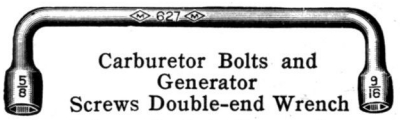
A small quantity of each of 22 wrenches that are in constant demand from FORD owners. Each wrench in the quantity that sales warrant. Sell this assortment as it is put up—you will save time of your customer and your salesmen. Mossberg Company will stand back of the selection—that they will move quickly and that each one sold will sell two more.

Salesman No. 600

No. 600 Salesman—80 wrenches—22 types

Wrench Number	Page No.	Openings	Quantity	Chief Use of the Particular Type
361	26	5/8	3	Demountable rim lug nuts.
608	31	.....	3	Valve grinder.
611	25	9/16	5	Various (Speed Brace), 3/8 inch screws.
612	25	5/8	3	Various (Speed Brace), 7/16 inch screws.
613	25	1/2	3	Various (Speed Brace), 5/16 inch screws.
622	27	9/16 sq.	3	Main bearing bolt heads (Crank shaft).
623	32	5/8	5	Fourth connecting rod (all rods).
624	32	5/8	2	Ratchet connecting rod wrench, especially fourth connecting rod.
625	33	9/16	5	All 3/8 inch nuts, bolts, and screws.
627	24	5/8, 9/16	5	Carburetor bolts and generator screws.
630	33	5/8, 1/2	5	Cylinder head screws and axle housing nuts and bolts
634	28	15/16, 1	3	Spring perch nuts.
635	28	5/8, 15/16	4	Cylinder head screws and spark plugs.
636	27	11/16	3	Fly wheel cap screws.
638	27	9/16	2	"Wrist pin" wrench.
645	33	11/16	5	Reverse and brake pedal tension springs.
650	28	15/16, 1-1/8 1-5/8, 1-1/8 oval	5	Hub caps spindle nuts; front cone; hub lock nuts.
652	30	15/16 slot	3	Universal joint knuckle (male).
654	31	.....	3	Valve spring lifter.
677	29	9/16, 3/4	4	Brake shoe support nuts; transmission cover bolts.
679	29	11/16, 7/8 15/16	2	Rear hub lock nut; spindle arm nut; spindle connecting rod bolt nuts.
2337	26	9/16	4	Various.

No. 627



Carburetor Bolts and Generator Screws Double-end Wrench

Specially adapted for carburetor bolts and generator screws and fits other adjustments on Ford cars.

The "U" shape permits easy adjustment of generator screws without removing radiator. Especially adaptable on 1924 model Ford cars, as new shape dustpan is positive obstruction to reaching these screws with any other type wrench without first removing radiator.

Openings: 5/8 and **9/16** inch hex.

Fits:

9/16 inch hex. opening

Ball socket bolt and nut.
Brake and reverse support bolt and nut.
Cam shaft bearing set screw.
Carburetor flange bolt and nut.
Clutch pedal support bolt.
Crank case and cylinder cover cap screws.
Crank case arm bolt nuts, top and sides.
Cylinder cover and crank case bolt and nut.
Cylinder front cover bolt and nut.
Cylinder front cover cap screws.
Dash-to-body bracket bolt nut.
Differential case stud and nut.
Front fender iron bolts and nut.
Front radius rod ball cap stud nut.
Inlet and exhaust clamp stud nut.
Magnet bolts.
Muffler head retainer bolt and nut.
Radiator stud nut.
Steering gear ball and socket joint nut.
Steering post bracket bolt and nut.
Transmission cover bolt and nut.
Transmission cover screws.
Universal ball cap bolt and nut.
Universal joint housing plug.

5/8 inch hex. opening

Commutator case support bolt.
Connecting rod cap bolt nut.
Crank case front bearing screw.
Cylinder front cover cap screw (starter type).
Cylinder head cap screws.
Cylinder head outlet connecting screws.
Cylinder water inlet connecting screw.
Demountable rim bolt nut.
Drive shaft roller bearing set screw.
Drive shaft roller bearing stud nut.
Windshield hinge nuts (previous to 1922).

Construction: Chrome manganese steel. Deep sockets and 1/2 inch bar of one piece construction.

Length: 10-1/4 inches.

Finish: Burnished nickel.

Packing: Six in a carton.

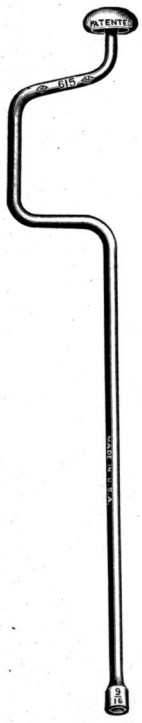
Shipping Weight: Six wrenches, 4-1/2 pounds.

Electrotypes: 2 by 9/16 inch.

Mossberg Standard Wrenches for Fords

No. 615

Radiator and Fender Wrench



Designed extra long to particularly get at some of these adjustments quickly, and thereafter is a direct time saver

This is a quick action wrench.

Opening: 9/16 inch hex.

Construction: Chrome manganese steel. Deep sockets and 1/2 inch bar of one-piece construction. Properly heat treated.

Length: 29 inches.

Finish: Burnished nickel.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 13-1/2 pounds.

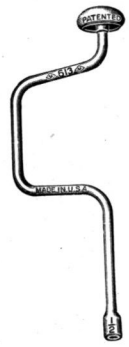
Electrotypes: 5/8 by 3-11/16 inches.

Fits:

Crank case and cylinder cover cap screws.
Crank case arm bolt nuts, top and sides.
Cylinder front cover bolt and nut.
Cylinder valve cover screw.
Front fender iron bolts and nuts
Inlet and exhaust clamp stud nut.
Radiator stud nut.

No. 613

Special Speed Brace for FORDS
5/16 Inch Cap Screw Wrench



Special steel means a good deal when it signifies laboratory tests to determine an alloy that is best to produce enduring product.

Mossberg Wrenches are really made of special analysis steel, defined by laboratory experiments.

Opening: 1/2 inch hex.

Fits:

Coil box nuts.
Controller shaft bracket bolt nut.
Crank case lower cover screw.
Dash bracket to-dash bolt nut.
Horn bolts and nuts

Construction: Chrome manganese steel. Deep socket and 1/2 inch bar of one-piece construction. Properly heat treated.

Length: 14-1/4 inches.

Finish: Burnished nickel.

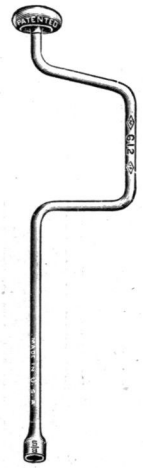
Packing: 6 in a carton.

Shipping Weight: 6 wrenches, 9-3/4 pounds.

Electrotypes: 5/8 by 1-3/4 inches.

No. 612

Special Speed Brace for FORDS
7/16 Inch Cap Screw Wrench



Work on Ford cars is today as nearly standardized as possible because wrenches and tools are standardized.

Opening: 5/8 inch hex.

Fits:

Connecting rod cap bolt nut.
Crank case front bearing screw.
Cylinder front cover cap screw (starter type).
Cylinder head cap screws.
Cylinder water inlet connecting screw.

Construction: Chrome manganese steel. Deep socket and 1/2 inch bar of one-piece construction. Properly heat treated.

Length: 19-1/4 inches.

Finish: Burnished nickel.

Packing: 6 in a carton.

Shipping Weight: 6 wrenches, 11-1/4 pounds.

Electrotypes: 5/8 by 2-3/8 inches.

No. 611

Special Speed Braces for FORDS
3/8 Inch Cap Screw Wrench

"All-Steel" speed braces with length throw and clearance specially designed for work on Ford cars.

Opening: 9/16 inch hex.

Fits:

Clutch release fork clamp crew.
Crank case and cylinder cover cap screws.
Crank case arm bolt nuts, top and sides.
Cylinder valve cover screw.
Engine base bolts and nuts.
Inlet and exhaust clamp stud nut.
Magnet bolts.
Muffler head retainer bolt and nut.
Transmission cover bolt and nut.
Transmission cover screws.

Construction: Chrome manganese steel. Deep socket and 1/2 inch bar of one-piece construction. Properly heat treated.

Length: 19-1/4 inches.

Finish: Burnished nickel.

Packing: 6 in a carton.

Shipping Weight: 6 wrenches, 11 pounds.

Electrotypes: 5/8 by 2-3/8 inches.

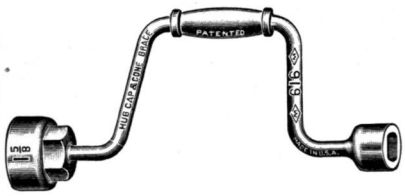
Mossberg Standard Wrenches for Fords

No. 2333
Solid Socket Wrench
"Tee" Handle Type

Opening: 1/2 inch hex.
Construction: Chrome manganese steel. Deep sockets and 1/2 inch bar of one-piece construction. Properly heat treated.
Fits:
- Coil box nuts.
- Controller shaft bracket bolt nut.
- Crank case lower cover screw.
- Differential drive gear screw.
- Muffler rod nut.
- Rear fender iron bolt nut (runabout and coupe).
- Running board-to-fender bolt and nut, front and rear.
- Steering tubing flange screw nut.
- Tire holder bracket-to-body bolt and nut.

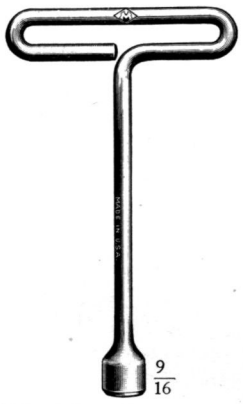
Finish: Burnished nickel.
Length: 12 inches.
Packing: Six of a size in a carton.
Shipping Weight: Six wrenches, 10 pounds.
Electrotypes: 1-1/4 by 2 inches.

No. 616
Ford Wheel Assembly Wrench



For actual saving of money because of time saved, the use of this wrench will pay for itself within the first fifteen times it is used.
Openings: 1-5/8 inches octagon, and 1-1/4 by 1-1/16 inches cone.
Construction: Chrome Manganese steel, solid one-piece construction. Properly heat treated.

No. 2337
Chrome Manganese Steel
Solid Socket Wrench
"Tee" Handle Type
Patent Pending



The 12 inch "Tee" Wrenches are very desirable for general work, and these three sizes listed here are those which are in most demand.

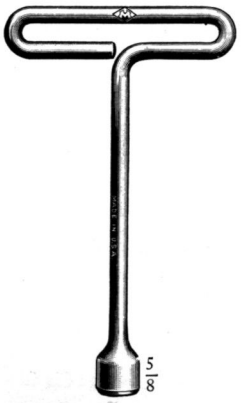
Of one-piece construction in chrome manganese steel, they are thoroughly warranted for continuous wear
Opening: 9/16 inch hex.
Construction: Chrome manganese steel. Deep sockets and 1/2 inch bar of one-piece construction. Sockets made in round shape allowing thin walls, minimum clearance and with reinforced faces. Properly heat treated.
Fits:
- Connecting rod clamp screw.
- Crank case and cylinder cover cap screws.
- Crank case arm bolt nuts, top and sides.
- Cylinder valve cover screw.
- Differential case stud and nut.
- Inlet and exhaust clamp stud nut.
- Magnet bolts.
- Muffler head retainer bolt and nut.
- Radius rod ball cap stud nut.
- Transmission cover bolt and nut.
- Transmission cover screws.
- Universal joint housing plug.

Finish: Burnished nickel.
Length: 12 inches.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 10 pounds.
Electrotypes: 1-1/4 by 2 inches.

Fits:
- Front axle adjusting cone (right and left).
- Front axle spindle nut (right and left).
- Rear axle nut.
- Wheel hub cap.

Finish: Burnished nickel.
Length: 13 inches.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 16 lbs.
Electrotypes: 2-1/16 by 15/16 inch.

No. 2341
"Tee" Handle Type
Solid Socket Wrenches



Opening: 5/8 inch hex.
Construction: Chrome manganese steel. Deep socket and 1/2 inch bar of one-piece construction. Properly heat treated.
Fits:
- Connecting rod cap bolt nut.
- Crank case front bearing screw.
- Cylinder head cap screws.
- Cylinder water inlet connecting screws.

Finish: Burnished nickel.
Length: 12 inches.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 10 pounds.
Electrotypes: 1-1/4 by 2 inches.

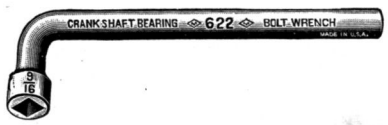
No. 361
Demountable Rim Brace for FORDS

Nearly all FORD cars are now equipped with demountable rims—and the lug nuts need clean fitting sockets that will do the work quickly and leave the lug nuts with good corners and threads not crossed.

No. 361 is guaranteed—and beyond that, the satisfaction of the user is assured as well.
Opening: 5/8 inch hex.
Construction: Chrome manganese steel bar and socket of one-piece construction. Center and end swivel-grip steel handles.
Finish: Burnished nickel.
Length: 14 inches.
Throw: 5-1/4 inches.
Packing: Six in a carton
Shipping Weight: Six wrenches, 10 lbs.
Electrotypes: 1-7/8 by 3/4 inch.

Mossberg Standard Wrenches for Fords

No. 622
Main Bearing Bolt Wrench



Made for one particular job and made of one single piece of heavy forged steel to do that job—the adjustments of main bearing bolts.

Opening: 9/16 inch square.

Fits: Crank shaft bearing bolts.

Construction: 3/4 inch heavy forged steel.

Finish: Burnished nickel.

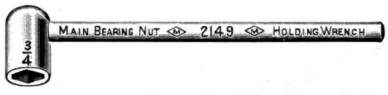
Length: 9-1/2 inches.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 9 pounds.

Electrotypes: 2 by 9/16 inch.

No. 2149
Main Bearing Nut Holding Wrench



When making adjustments of main bearing bolts, it is necessary to hold the nuts so they will not turn. No. 2149 slips in between the cylinders, grips these nuts and actually eliminates the need of another man.

Fits:
- Brake shoe support bolt and nut.
- Commutator lock nut.
- Crank case front bearing and spring clip nut.
- Crank shaft rear bearing bolt and nut.
- Fan bracket bolt.
- Front spring clip nut (previous to 1922).
- Lamp bracket nuts.
- Main bearing nuts.
- Rear radius rod bolt and nut.
- Spindle bolt nut.
- Steering gear post castle nut.

Construction: 1/2 inch chrome manganese steel bar. Deep dome top socket of special steel, round shape for minimum clearance.

Length: 10 inches.

Finish: Burnished nickel.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 5 pounds.

Electrotypes: 2 by 7/16 inch.

No. 620
Main Bearing Bolt Ratchet Wrench

A quick action wrench for main bearing for front and center main bearing bolt heads.

With the motor in the car, it fits center and front main bearing bolts. Fits all main bearing bolts with car disassembled.

Opening: 9/16 inch square.

Fits: Crank shaft bearing bolts (center and front).

Construction: 1/2 inch round steel bar, parts properly hardened; socket of special analysis steel.

Finish: Burnished nickel.

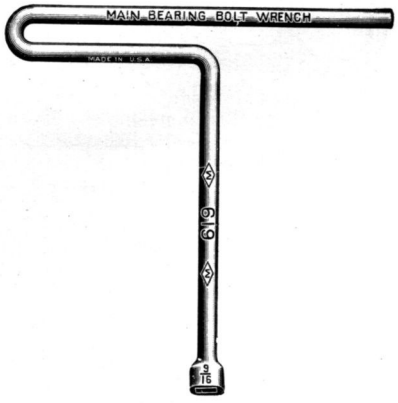
Length: 10-1/2 inches.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 8 pounds.

Electrotypes: 2 by 5/8 inch.

No. 619
Main Bearing Bolt "Tee" Socket Wrench



This is an exceedingly heavy duty wrench and should be ordered out for continuous service for adjustments on main bearing bolts with the motor out of the car, or on center bearing bolts when the motor is in the chassis.

Opening: 9/16 inch square. Inside tapered.

Fits: Crank shaft bearing bolts.

Construction: 11/16 heavy, chrome manganese steel bar and socket of solid one-piece construction.

Finish: Burnished nickel.

Width of handle: 12 inches.

Length: 12 inches.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 20 pounds.

Electrotypes: 2 by 2 inches.

No. 636
Fly Wheel Cap Screw Wrench

The hardest adjustments to be made on a Ford car come in the Fly Wheel Cap Screws. This heavy forged wrench is guaranteed to meet the unusual demand necessary to do the work **right.**

Opening: 11/16 inch

Fits:
- Fly wheel cap screws.
- Battery cable terminal nut on floor board.
- Battery clamp bolt nut.

Construction: 3/4 inch forged steel with heat treatment to assure maximum strength. Solid one piece.

Length: 11-1/4 inches.

Finish: Burnished nickel.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 10-1/2 pounds.

Electrotypes: 1-15/16 by 5/8 inch.

No. 638
Connecting Rod Clamp Screw Wrench

A tool that **will** do the work it is designed to do quickly, efficiently and completely.

Opening: 9/16 inch

Fits:
- Connecting rod clamp screws.
- Magnet bolts.

Construction: 3/4 inch forged steel, special heat treatment. Solid one piece.

Length: 9-1/4 inches.

Finish: Burnished nickel.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 9-1/4 pounds.

Electrotypes: 2 by 11/16 inch.

Mossberg Standard Wrenches for Fords

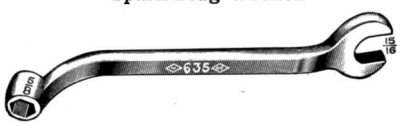
No. 643
Exhaust Pack Nut Wrench

Many leaks in the exhaust occur in and around the pack nut, just under the floor board of the car.

No. 643 is a brute of a heavy forged wrench that sets this nut to stay.

Opening: 2-1/16 inches.
Length: 12-1/2 inches.
Finish: Black, with heads polished.
Packing: One in a carton.
Shipping Weight: One wrench, 3 pounds.
Electrotypes: 2 by 5/8 inch.

No. 635
Cylinder Head Screw and Spark Plug Wrench



A utility wrench with great scope of work. Is an established type and is a good leader for service stations and repair shops.

Especially adapted for getting at the **last two cylinder heads under the dash.**

Openings: 5/8 inch hex. and 15/16 inch.
Construction: Heavy special steel. Socket, special alloy, properly hardened.
Fits:

5/8 inch hex. opening
- Cylinder front cover cap screw (starter type).
- Cylinder head cap screws.
- Cylinder head outlet connecting screws.
- Cylinder water inlet connecting screw.
- Demountable rim bolt nut.
- Drive shaft roller bearing set screw.
- Drive shaft roller bearing stud nut.
- Windshield hinge nuts (previous to 1922).

15/16 inch opening
- Spark plug.
- Crank case drain coupling.
- Differential housing oil plug.
- Drive shaft castle nut.
- Front spring perch nut.
- Rear axle shaft castle nut.
- Transmission band adjusting screw and nut.

Finish: Burnished nickel.
Length: 10 inches.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 4-3/4 pounds.
Electrotypes: 2 by 1/2 inch.

No. 634
Spring Perch Nut Wrench

Fits all perch spring nuts and particularly invaluable in shock absorber adjustment.

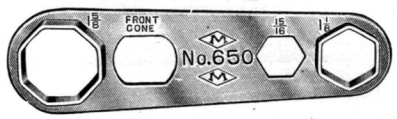
Openings: 15/16 and 1 inch hex.
Construction: 9/16 inch steel bar. Sockets of special analysis steel.
Fits:

15/16 inch hex. opening
- Drive shaft castle nut.
- Front spring perch nut.
- Rear axle shaft castle nut.

1 inch hex. opening
- Rear spring perch nut.

Length: 10-1/4 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 9 pounds.
Electrotypes: 2 by 3/4 inch.

No. 650
Hub Cap Wrench



The accepted design.
Construction: Heavy steel.
Fits:
- Drive shaft castle nut.
- Front axle adjusting cone (right and left).
- Front axle spindle nut (right and left).
- Rear axle shaft castle nut.
- Wheel hub cap.

Length: 8-1/2 inches.
Finish: Burnished nickel.
Packing: Twelve in a carton.
Shipping Weight: Twelve wrenches, 6 pounds.
Electrotypes: Superior wood cut, 2 by 9/16 inch.

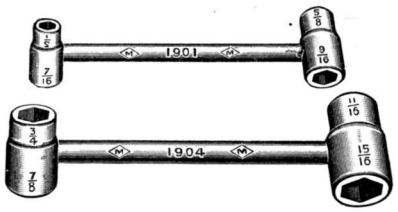
- Crank case front bearing and spring clip nut.
- Crank shaft rear bearing bolt and nut.
- Fan bracket bolt.
- Front spring clip nut (previous to 1922).
- Rear radius rod bolt and nut.
- Spindle bolt nut.
- Steering gear post castle nut.

7/8 inch hex. opening
- Front spring clip nut, 1922 and 1923.
- Rear spring clip nut.
- Spindle arm nut.

15/16 inch hex. opening
- Front spring perch nut.

Finish: Burnished nickel.
Packing: Each set in durable cardboard carton.
Shipping Weight: 3-1/4 pounds.
Electrotypes: 2 by 1-1/8 inches.

No. 1944
"Double-Four" Socket Set
2 Wrenches, 8 Openings



With just two wrenches, there are 8 socket openings and 77 possible adjustments on FORD cars that are reached by these two wrenches. Some adjustments on FORD cars are better made with the specially designed wrench which Mossberg has made for every individual place but—No. 1944 will cover most necessary demands, especially of owner drivers.

Sold singly or in sets.

Construction and Length:
1901—1/2 inch special analysis steel bar 9-1/2 inches long.
1904—11/16 inch special analysis steel bar 11 inches long.

Fits:

7/16 inch hex. opening
- All 1/4 inch S. A. E. screw heads and hex. head cap screws.

1/2 inch hex. opening
- Crank case lower cover screw.
- Dash bracket-to-dash bolt nut.
- Front fender apron-to-frame bolt nut.
- Muffler rod nut.
- Radiator stud nut.
- Rear fender iron bolt nut (runabout and coupe).
- Running board-to-fender bolt and nut (front and rear).
- Steering tubing flange screw nut.
- Tire holder bracket-to-body bolt and nut (side).

9/16 inch hex. opening
- Crank case arm bolt nuts, top and sides.
- Cylinder cover and crank case bolt and nut.
- Cylinder front cover bolt and nut.
- Cylinder front cover cap screws.
- Cylinder valve cover screw.
- Dash-to-body bracket bolt nut.
- Front axle ball socket bolt and nut.
- Front fender iron bolts and nuts.
- Front radius rod ball cap stud nut.
- Inlet and exhaust clamp stud nut.
- Magnet bolts.
- Muffler head retainer bolt and nut.
- Radiator stud nut.
- Steering gear ball and socket joint nut.
- Steering post bracket bolt and nut.
- Transmission cover bolt and nut.
- Transmission cover screws.
- Universal ball cap bolt and nut.
- Universal joint housing plug.

5/8 inch hex. opening
- Connecting rod cap bolt nut.
- Crank case front bearing screw.
- Cylinder head cap screws.
- Cylinder head outlet connecting screws.
- Demountable rim bolt nut.
- Drive shaft roller bearing stud nut.

11/16 inch hex. opening
- Body bracket connecting bolt nut.
- Fan shaft nut.
- Front and rear spring hanger nuts.
- Spindle connecting rod bolt and nut.
- Steering yoke clamp bolt nut.
- Wheel hub bolt nuts.

3/4 inch hex. opening
- Brake shoe support bolt and nut.
- Commutator lock nut.

Mossberg Standard Wrenches for Fords

No. 679

(Old No. 676 B)

Spindle Connecting Rod Bolt Nuts, Spindle Arm Nut, and Rear Hub Lock Nut Wrench

A most useful wrench for some very difficult adjustments and is a supplementary tool in larger sizes for unusual work.

Openings: 11/16, 7/8, 15/16 inch hex.

Fits:

11/16 inch hex. opening

Body bracket connecting bolt nut
Fan shaft nut
Front and rear spring hanger nuts
Spindle bolt with oiler
Spindle connecting rod bolt and nut
Steering yoke clamp bolt nut
Wheel hub bolt nuts

7/8 inch hex. opening

Rear spring clip nut
Spindle arm nut

15/16 inch hex. opening

Differential housing oil plug
Drive shaft castle nut
Front spring perch nut
Rear axle shaft castle nut

Construction: 5/8 inch heavy Steel Bar.

Sockets: Specially drawn.

Length: 10-3/4 inches.

Finish: Burnished nickel.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 9-1/2 pounds.

Electrotypes: 2 by 5/8 inch.

No. 676 Set

A set of five wrenches made up of individual wrenches described in detail on this and previous pages.

Each wrench is scientifically designed to fit the particular adjustments with careful allowance for clearance, leverage and interference.

No. 676 Set

5 special wrenches.
10 socket openings.
67 adjustments possible.

The salesmen in your employ who will take this one set, study the usefulness of each item and sell himself on every individual item will turn over a tremendous profit on very little effort. Try it!

Construction: Heavy bar steel of 1/2 inch and 5/8 inch diameter.

Contains:

No. 677 Double end utility.
No. 623 All connecting rods.
No. 679 Triple end utility.
No. 645 Reverse and brake pedal tension springs.
No. 630 Cylinder head and rear axle housing.

Description of individual wrenches, No. 630 and No. 645, will be found on page 33; No. 623 on page 32.

Finish: Burnished nickel.

Packing: Sturdy.

Shipping Weight: 4-3/4 pounds.

Electrotypes: 2 by 2 inches.

No. 677

(Old No. 676 A)

Brake Shoe Support Bolt and Nut, and Transmission Cover Bolt and Nut Wrench

The two sizes of sockets on this wrench show the largest number of adjustments possible of any wrench combinations.

Reason enough for its turnover.

Openings: 9/16 and 3/4 inch hex.

Fits:

9/16 inch hex. opening

Ball and socket joint and nut.
Cam shaft bearing set screws.
Crank case arm bolt nuts, top and sides.
Crank case and cylinder cover cap screws.
Cylinder cover and crank case bolt and nut.
Cylinder front cover cap screws.
Cylinder valve cover screw.
Dash-to-body bracket bolt nut.
Differential case stud and nut.
Magnet bolts.
Radiator stud nut.
Transmission cover bolt and nut.
Transmission cover screws.
Universal ball cap bolt and nut.
Universal joint housing plug.

3/4 inch hex. opening

Brake shoe support bolt and nut.
Commutator lock nut.
Crank case front bearing and spring clip nut.
Crank shaft rear bearing bolt and nut.
Fan bracket bolt.
Front spring clip nut (previous to 1922).
Rear radius rod bolt and nut.
Spindle bolt nut.
Steering gear post castle nut.

Construction: 1/2 inch heavy Steel Bar. Sockets, round for clearance.

Length: 9-3/8 inches.

Finish: Burnished nickel.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 7-1/2 pounds.

Electrotypes: 1-7/8 by 1/2 inch.

Mossberg Standard Wrenches for Fords

No. 652

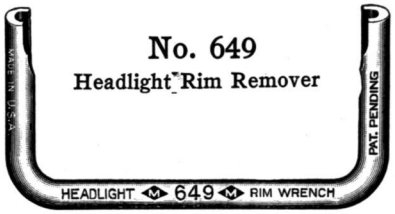
Universal Joint Assembly Wrench

Actually saves one man's time on this difficult job. No more "fishing" but a quick, clean assembly.

Opening: 15/16 inch slot.
Fits: Universal joint knuckle (male)
Construction: 5/32 inch heavy steel.
Finish: Burnished nickel.
Length: 8 inches.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 4 pounds.
Electrotypes: 2 by 1/2 inch.

No. 649

Headlight Rim Remover



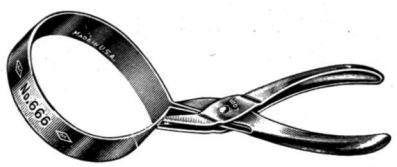
Have you tried to remove the headlight rims on a Ford car?

If you have, you will immediately appreciate this tool, and every single Ford owner will carry one with him in these days of state laws that require two lights showing from the front.

Construction: 5/8 inch heavy steel bar.
Finish: Burnished nickel
Length: 13-7/8 inches over all
Packing: Six in a carton.
Shipping Weight: Six tools, 13-1/2 pounds.
Electrotypes: 2 by 1 inch.

No. 666

Piston Ring Compressor for FORDS



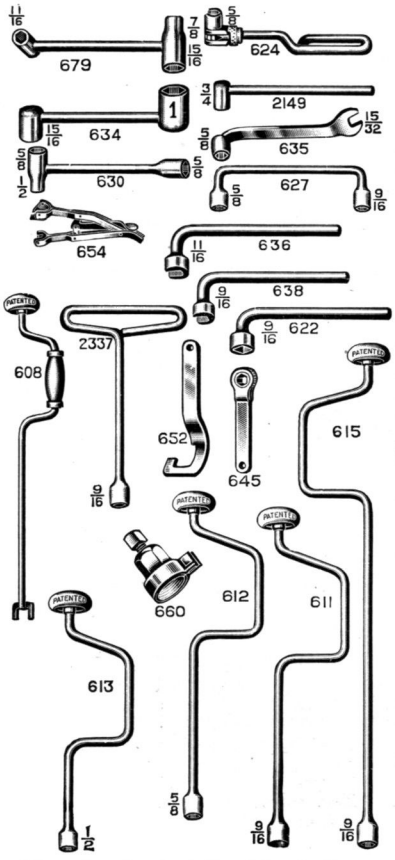
Piston Rings are difficult to insert because of the very tension of the spring in the temper of the steel.

One trial of No. 666 will convince the mechanic of the improvement of this tool over home made methods.

Fits: Ford cars—and for other fittings see page 11.
Construction: "All-steel."
Finish: Burnished nickel.
Length: 9-1/2 inches.
Packing: Individual carton.
Shipping Weight: 1/2 pound.
Electrotypes: 2 by 3/4 inch.

No. 670

Mechanics Complete Set for FORD Repair



Wrenches for just the job of all garage work on FORDS.

Contains:

- No. 608 Long Valve Grinder.
- No. 611 Speeder, 9/16 inch opening.
- No. 612 Speeder, 5/8 inch opening.
- No. 613 Short speeder.
- No. 615 Connecting rod wrench.
- No. 622 Crank shaft bearing bolt wrench.
- No. 624 Connecting rod wrench.
- No. 627 Carburetor and generator wrench.
- No. 630 Triple end cylinder head screw and rear axle housing nut wrench.
- No. 634 Perch nut wrench.
- No. 635 Spark plug and cylinder head wrench.
- No. 636 Fly wheel cap screw wrench.
- No. 638 Wrist pin wrench.
- No. 645 Reverse and brake pedal wrench.
- No. 652 Universal joint assembly wrench.
- No. 654 Valve Lifter.
- No. 660 Wheel Puller.
- No. 679 Triple end utility wrench.
- No. 2149 Offset socket wrench, 3/4 inch opening.
- No. 2337 9/16 inch "Tee" wrench.

Offers adjustment on:

Body bracket connecting bolt nut	679
Brake and reverse support bolt and nut	627
Brake shoe support bolt and nut	2149
Cam shaft bearing set screw	627
Carburetor flange bolt and nut	627
Clutch pedal support bolt	627
Coil box nuts	613, 630
Commutator case support bolt	630, 627
Commutator lock nut	2149
Connecting rod cap bolt nut	624, 627
Connecting rod clamp screw	638, 2337
Controller shaft bracket bolt nut	613, 630
Crank case and cylinder cover cap screws	627, 615
Crank case arm bolt nuts, top and sides	627, 615
Crank case front bearing and spring clip nut	2149
Crank case front bearing screw	624, 627
Crank case lower cover screw	630, 613
Crank shaft bearing bolt (center and front)	622
Crank shaft rear bearing bolt and nut	2149
Cylinder cover and crank case bolt and nut	627
Cylinder front cover bolt and nut	627, 615
Cylinder front cover cap screws	627
Cylinder front cover cap screw (starter type)	627, 624
Cylinder head cap screws	635, 630
Cylinder head cap screws (last two under dash)	635
Cylinder head outlet connecting screws	635, 630
Cylinder valve cover screw	615, 611
Cylinder water inlet connecting screw	624, 627
Dash bracket-to-dash bolt nut	630, 613
Dash-to-body bracket bolt nut	627
Demountable rim bolt nut	624, 630
Differential case stud and nut	627, 2337
Differential drive gear screws	630
Differential housing oil plug	635, 679
Drive shaft castle nut	634, 679
Drive shaft roller bearing set screw	627, 630
Driver shaft roller bearing stud nut	627, 635
Fan bracket bolt	2149
Fan shaft nut	679
Fly wheel cap screws	636
Front and rear spring hanger nuts	679
Front axle ball socket bolt and nut	627
Front fender apron-to-frame bolt nut	630
Front fender iron bolts and nuts	615, 627
Front radius rod ball cap stud nut	627, 2337
Front spring perch nut	634, 679
Inlet and exhaust clamp stud nut	627, 615
Magnet bolts	638, 627
Muffler head retainer bolt and nut	627, 611
Muffler rod nut	613, 630
Radiator stud nut	615, 627
Rear axle housing bolt and nuts	630
Rear axle shaft castle nut	634, 679
" fender iron bolt nut (runabout & coupe)	630
Rear radius rod bolt and nut	2149
Rear spring clip nut	679
Rear spring perch nut	634
Running board-to-fender bolt and nut, front and rear	630
Spark plug	635
Spindle arm nut	679
Spindle bolt nut	2149
Spindle bolt with oiler	679
Spindle connecting rod bolt and nut	679
Steering gear ball and socket joint nut	627
Steering gear post castle nut	2149
Steering post bracket bolt and nut	627
Steering tubing flange screw nut	630
Steering yoke clamp bolt nut	679
Tire holder bracket-to-body bolt and nut	On side: 630
Transmission band adjusting nut	645
Transmission band adjusting screw and nut	635
Transmission cover bolt and nut	627, 611
Transmission cover screws	627, 611
Universal ball cap bolt and nut	627
Universal joint housing plug	627, 2337
Wheel hub bolt nuts	679

Construction: "All steel."
Finish: Burnished nickel.
Packing: Each set in a sturdy case.
Shipping Weight: 30 pounds each set.
Electrotypes: 2 by 4-3/8 inches & 1-3/8 by 3-1/8.

No. 607
Valve Grinder

The "old reliable" valve grinder is a tool that really gives a rapid, steady turnover, because it is scientifically designed to do the work.

The rotary motion made possible by the correct bend in the handle insures steady, uniform pressure at all points between valve face and seat. A quick, clean job.

Fits: **All** valves.

Construction: Wood swivel top and grip. Rocker points.

Finish: Burnished nickel.

Length: 4-1/2 inches.

Packing: Six in a carton.

Shipping Weight: Six grinders, 27-1/2 ounces.

Electrotypes: 1 by 1-1/4 inches.

No. 608
Valve Grinder

Rocker points assure ease of operation and well ground valves. Short swing means quicker operation.

Fits: All valve tops except under the dash (fitted by No. 607).

Construction: 3/8 inch Bar Steel. Top and center swivel-grip handles.

Finish: Burnished nickel.

Length: 22-1/2 inches.

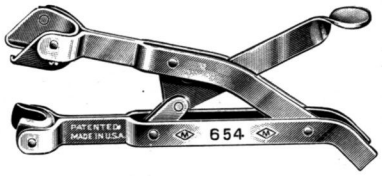
Packing: Six in a carton.

Shipping Weight: Six lifters, 8-1/2 pounds.

Electrotypes: 2 by 1/2 inch.

Standard Wrenches for Fords

New "PARALLEL" Valve Spring Lifter for Fords



No. 654
Valve Spring Lifter for FORDS

Construction: "All-steel."

Finish: Burnished nickel.

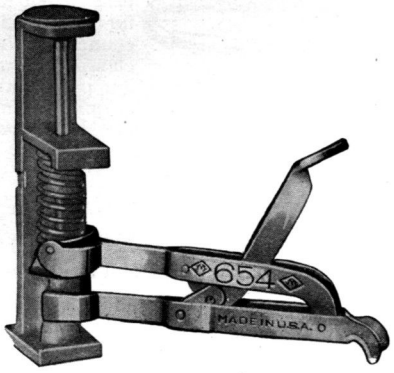
Length: 7 inches.

Packing: Individual carton.

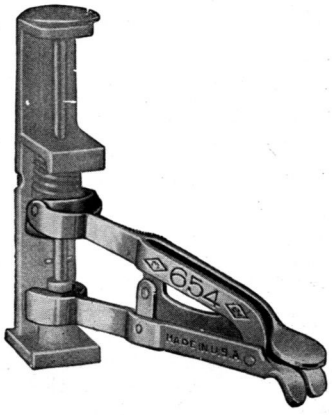
Shipping Weight: 10 ounces.

Electrotypes: Individual tool, 2 by 1 inch.

Halftones of operation and application, 2 by 2 inches.



No. 654 inserted ready to raise valve springs.



No. 654 with lifter compressed and spring raised to allow pin to be removed.

A new valve spring lifter for Fords that combines all the desirable features gathered from experiences of study of this important work. The swinging bucket on the top end allows the springs to rise in the proper plane without binding and the pins are then easily removed.

This **new** valve spring lifter is a progressive development of such devices. The pivoted cup on the upper side allows perfectly parallel raise on the spring.

And the double leverage lifting design gives an easily operated lifter—the **ideal** lifter for all Fords.

Mossberg Standard Wrenches for Fords

No. 623
Connecting Rod Wrench

Opening: 5/8 inch hex.
Fits the **fourth** connecting rod bolts and units without dismounting the motor, and

Fits:
Commutator case support bolt.
Connecting rod cap bolt nut.
Crank case front bearing screw.
Cylinder front cover cap screw (starter type).
Cylinder head cap screws.
Cylinder head outlet connecting screws.
Cylinder water inlet connecting screw.
Demountable rim bolt nut.
Drive shaft roller bearing set screw.
Drive shaft roller bearing stud nut.
Timing gear cover.
Windshield hinge nuts (previous to 1922).

Construction: 1/2 inch chrome manganese steel bar. Deep dome top socket of special analysis steel.

Finish: Burnished nickel.

Length: 10-1/4 inches.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 5-1/4 pounds.

Electrotypes: 2 by 1/2 inch.

No. 624
Connecting Rod Wrench

The most useful all-around wrench for Ford cars. Special chrome steel alloy socket.

Fits: Same adjustments as No. 623 listed above.

Construction: 1/2 inch Steel Bar. Ratchet parts properly hardened. Socket of chrome steel alloy.

Finish: Burnished nickel.

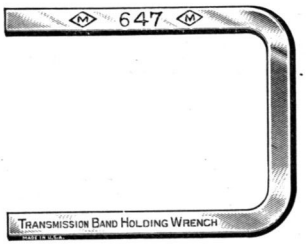
Length: 10-1/4 inches.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 7-1/4 pounds.

Electrotypes: 2 by 5/8 inch.

No. 647
Transmission Band Holding Wrench



A necessary tool for installing speed and brake bands in the Ford.
The "U" shape inserted over the bands makes easy adjustment of springs and tension bolts.

Construction: "All-Steel," properly tempered.

Finish: Burnished nickel.

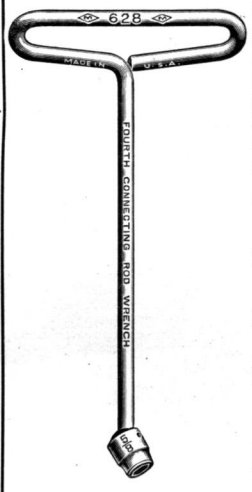
Size: 3-15/16 by 3-1/8 inches.

Packing: Twelve in a carton.

Shipping Weight: Twelve wrenches, 1-1/2 pounds.

Electrotypes: 1-1/2 by 1-1/4 inches.

No. 628
Fourth Connecting Rod Wrench



One of the best wrenches for adjusting connecting rod clamp screws and particularly quick acting on No. 4 connecting rod.

Opening: 5/8 inch hex.

Length: 14-1/2 inches.

Finish: Burnished nickel.

Packing: Six in a carton.

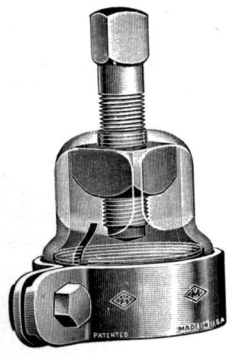
Fits: Connecting rod cap bolt nut.
Cylinder head cap screws.
Cylinder water inlet connecting screw.

Construction: 1/2 inch heavy steel bar. Sockets of special analysis steel.

Shipping Weight: Six wrenches, 10 pounds.

Electrotypes: 1-1/4 by 2-7/16 inches.

Wheel Pullers



No. 660
Wheel Puller for Passenger Cars

No. 660 has a free thrust bolt that enables the operator to tap the bolt head with a hammer in particularly difficult cases, with no injury to either hub threads or puller threads.
Fits: Ford hubs.
Construction: Heavy drawn steel with adjustable grip clamp strap for assured safety to threads. 3/4 inch thrust bolt.
Finish: Burnished nickel.
Height: 3-3/8 inches.
Packing: Individual cartons.
Shipping Weight: 25 ounces.
Electrotypes: 1-1/8 by 1-3/4 inches.

No. 661
Wheel Puller for Ford Ton Trucks

Made especially for the Ford Truck, this wheel puller carries the free thrust bolt and may be hammered after adjustment is tight, without injury to hub threads or puller.
Fits: Ford truck hubs and Chevrolet 1924 Superior model.
Construction: Heavy drawn steel with adjustable grip clamp strap for assured safety to threads. 3/4 inch thrust bolt.
Finish: Burnished nickel.
Height: 3-3/8 inches.
Packing: Individual cartons.
Shipping Weight: 26 ounces.
Electrotypes: 1-1/8 by 1-3/4 inches.

No. 662
Wheel Puller for Chevrolet

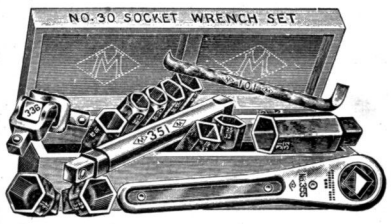
Fits: Chevrolet 1922 and 1923 Superior models, and Star cars.

See No. 660 for detailed description.

Mossberg Standard Wrenches for Fords

No. 30

"Universal" Socket Set



The No. 30 is the set that sells in greatest quantity with least selling resistance of any set.

For a low price, it offers nearly all adjustments that the average owner ever needs to make, without disassembling the car.

Contains:

No. 355 Ratchet Handle, 8 inches long.
No. 351 Extension, 9-3/8 inches long.
No. 336 Universal Joint.
No. 101 Offset Screwdriver.
10 guaranteed sockets.

Socket Size Hex.	Fitting		
	U. S. Standard Bolts & Nuts	S. A. E. Screws	Hex. Head Cap Screws
15/32	.....	1/4	1/4
17/32	1/4	5/16	5/16
19/32	.....	3/8	3/8
21/32	.....	7/16	7/16
23/32	3/8	.....	....
25/32	.....	1/2	1/2
29/32	1/2	9/16	5/8
31/32	.....	5/8	....

Socket Size Square	Square Head Set Screw	Square Head Coach Screw	Hex. Head Cap Screw
19/32	9/16	3/8	7/16

Also one 31/32 inch spark plug socket, four inches high, fitting all plugs made for Fords.

Fits: 84 possible adjustments on Fords.

Finish: No. 355, No. 351, No. 336, burnished nickel. No. 101, oil black. Sockets, mottled.

Packing: Hardwood cabinet box.

Shipping Weight: 4-3/4 pounds.

Electrotypes: 2 by 1-1/8 inches.

No. 2133

5/16 Inch Cap Screw Wrench

No. 2133 is one of the primarily essential tools in a kit.

Opening: 1/2 inch hex.

Construction: 1/2 inch chrome manganese steel bar with deep dome top socket of special analysis steel.

Fits:

Controller shaft bracket bolt nut.
Crank case lower cover screw.
Differential drive gear screws.
Front fender apron-to-frame bolt nut.
Muffler rod nut.
Rear axle housing bolt and nuts.
Rear fender iron bolt nut (runabout and coupe).
Running board-to-fender bolt and nut, front and rear.
Steering tubing flange screw nut.
Tire holder bracket-to-bolt and nut (on side).

Finish: Burnished nickel.

Length: 10 inches.

Packing: Six of a size in a carton.

Shipping Weight: Six wrenches, 5 pounds.

Electrotypes: 2 by 3/8 inch.

No. 625

3/8 Inch Cap Screw Wrench

So many nuts, bolts and screws on a FORD car are of this size that this wrench is actually indispensable.

Opening: 9/16 inch hex.

Construction: 1/2 inch chrome manganese steel bar. Deep socket of special analysis steel, round shape for minimum clearance.

Fits:

Ball socket bolt and nut.
Cam shaft bearing set screw.
Crank case and cylinder cover cap screws.
Crank case arm bolt nuts, top and sides.
Cylinder cover and crank case bolt and nut.
Cylinder front cover bolt and nut.
Cylinder front cover cap screws.
Cylinder valve cover screw.
Dash-to-body bracket bolt nut.
Differential case stud and nut.
Front fender iron bolts and nuts.
Inlet and exhaust clamp stud nut.
Magnet bolts.
Muffler head retainer bolt.
Radiator stud nut.
Radius rod ball cap stud nut.
Steering gear ball and socket joint nut.
Steering post bracket bolt and nut.
Transmission cover bolt and nut.
Transmission cover screws.
Universal ball cap bolt and nut.
Universal joint housing plug.

Length: 7-1/4 inches.

Finish: Burnished nickel.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 5 pounds.

Electrotypes: 1-15/16 by 7/16 inch.

No. 630

Cylinder Head Screw and Rear Axle Housing Nut Wrench

Especially designed for **all** Cylinder Head Cap Screws (including those hard to get at under the dash) and Rear Axle Housing Bolts and Nuts.

Construction: 1/2 inch chrome manganese steel bar.

Fits:

1/2 inch hex. opening

Coil box nuts.
Controller shaft bracket bolt nut.
Crank case lower cover screws.
Dash bracket-to-dash bolt nut.
Differential drive gear screws.
Front fender apron-to-frame bolt nut.
Muffler rod nut.
Rear axle housing bolts and nuts.
Rear fender iron bolt nut (runabout and coupe).
Running board-to-fender bolt and nut, front and rear.
Steering tubing flange screw nut.
Tire holder bracket-to-body bolt and nut (on side).

5/8 inch hex. opening

Commutator case support bolt.
Connecting rod cap bolt nut.
Cylinder head cap screws.
Cylinder head outlet connecting screws.
Cylinder water inlet connecting screws.
Demountable rim bolt nut.
Drive shaft roller bearing set screw.

Length: 9-3/4 inches.

Finish: Burnished nickel.

Packing: Twelve in a carton.

Shipping Weight: Twelve wrenches, 8-1/4 pounds.

Electrotypes: 2 by 9/16 inch.

No. 645

Ratchet Tension Spring Wrench for Reverse and Brake Pedal

Does a hard job easily. A fast moving item because it is made just for this work.

Construction: Heavy steel with properly hardened ratchet and spring.

Finish: Burnished nickel.

Length: 6-1/8 inches.

Packing: Twelve in a carton.

Shipping Weight: Twelve wrenches, 2-7/8 pounds.

Electrotypes: 1-7/8 by 3/8 inch.

Complete Reference of MOSSBERG wrenches for all work on Fordson Tractors

Name	Wrench Opening Size Inches	Mossberg Wrenches to fit
AIR WASHER		
Air washer drain plug	2-3/16	325 handle with 0171 socket
Air washer cover cap screw and nut	7/16	232 D. E. Wrench, 2129
Air washer flange cap screw	7/16	232 D. E. Wrench, 2429, 2329, 2129
Air washer bowl cap screw	3/4	253 D. E. Wrench
Air washer cap screw	7/8	734, 276 D. E. Wrench
CLUTCH		
Clutch housing cap screw and nut	7/16	232 D. E. Wrench, 2129
Clutch driven drum nut	1-7/8	325 handle with 1-29/32 socket
Clutch lever bracket bolt	3/4	734
COMMUTATOR		
Commutator spring stud nut	5/8	627, 243 D. E. Wrench, 2141, 621, 624, 630, 635
Commutator lock nut	7/16	232 D. E. Wrench
DASH		
Dash cap screw	7/8	734, 2457
Clutch lever bracket bolt	3/4	734
EXTENSION RIM		
Extension rim bolt and nut	5/8	627
FAN		
Fan screws	7/16	232 D. E. Wrench
Fan shaft nut	15/16	635, with 7/16 inch opening of No. 233 to hold oval end fast
FOOT BRACKET		
Foot bracket cap screw	3/4	734, 2149, 677, 253 D.E.Wrench
FRONT AXLE		
Radius rod bolt and nut	15/16	679, 635
Spindle nut	1-1/16	750
Spindle arm nut	1-1/16	750
Steering gear connecting rod cap bolt and nut	5/8	627, 2141, 621, 624, 623, 630, 635
GASOLINE TANK		
Gasoline tank plug	15/16	635
Gasoline feed tube pack nut	5/8	243 D. E. Wrench
Gasoline tank cap screw	3/4	734, 2149, 677
GEAR SHIFTER		
Gear shifter plate cap screw	3/4	734, 677, 2349, 2149
Gear shifter plate cap	2-3/16	325 handle with 0171 socket
KEROSENE TANK		
Kerosene tank strap nut	5/8	627, 2141, 621, 623, 630, 635
Sediment bulb flange	3/4	253 D. E. Wrench
Kerosene feed tube pack nut	5/8	243 D. E. Wrench
Sediment bulb pack nut	5/8	243 D. E. Wrench
MAGNETO		
Magneto coil support screw	3/4	736
Fly wheel magnet bolt	9/16	627, 2137, 677
Fly wheel stud nut	3/4	736
MOTOR		
Camshaft nut (large)	1-7/16	325 handle with 0147 socket
MOTOR (Cont.)		
Camshaft nut (small)	3/4	734, 2149, 677, 253 D. E. Wrench
Connecting rod cap bolt nut	3/4	736
Connecting rod clamp screw	5/8	627
Crankcase bolt and nut	5/8	627, 2149, 621, 623, 630, 635
Crankcase drain plug	2-3/16	325 handle with 0171 socket
Crankcase pipe plug	1/2	232 D. E. Wrench
Crankshaft bearing cap screw	7/8	734, 679, 2157, 325 handle with 0129 socket
Cylinder front cover bolt and [nut	5/8	627
Cylinder front cover cap screw	3/4	734
Cylinder head cap screw	3/4	734
Valve spring cover screw	3/4	734, 2149, 677, 253 D. E. Wrench
RADIATOR		
Radiator tank cap screw	7/16	232 D. E. Wrench
Radiator top tank connection cap screw	3/4	734, 2149, 677, 253 D. E. Wrench
Radiator tank cap screw nut	7/16	232 D. E. Wrench
Radiator bottom tank cap screw	3/4	734, 2149, 677
Radiator connection bolt & nut	5/8	627, 624, 2141, 621, 630, 635
REAR AXLE		
Differential housing bolt and nut	3/4	734, 2149, 677
Rear axle housing		751 bar with 750
Rear axle housing cap screw	7/8	734, 679, 2157
Rear axle housing oil plug	2-3/16	325 handle with 0171 socket
Rear axle housing plug	17/32	232 D. E. Wrench
Worm nut	2-3/16	325 with 0171
SEAT		
Seat spring bolt nut	13/16 sq.	2157, 679, 257, 276 D.E.Wrench
Seat spring cap screw	1-1/16	750, 276, D. E. Wrench
STEERING GEAR		
Steering shaft nut	15/16	679, 635
TOOL BOX		
Tool box cap screw	3/4	734, 2149, 677, 253 D. E. Wrench
TRANSMISSION		
Drawbar cap screw	7/8	679, 2157, 325 with 0129
Transmission housing bolt and nut	5/8	627, 2149, 621, 623, 630, 635
Transmission housing cap screw	3/4	734, 253 D. E. Wrench
Transmission housing plate cap screw	3/4	734, 677, 2149
Transmission housing plug	1/2	232 D. E. Wrench
VAPORIZER		
Exhaust manifold stud nuts [screw and nut	3/4	734, 2149, 677, 243 D. E. Wrench
Exhaust tube bracket cap	7/16	232 D. E. Wrench
Float chamber stud nut	1/2	232 D. E. Wrench
Fuel inlet elbow pack nut	5/8	243 D. E. Wrench
Gasoline shut-off cock pack nut	5/8	243 D. E Wrench
Mixer chamber stud nuts	9/16	243 D. E. Wrench
WHEELS		
Front wheel hub cap	2-3/16	325 handle with 0171 socket
Rear wheel hub cap screw	1-1/32	750 with 751
Rear wheel bushing		751 with 750

Mossberg Standard Wrenches for FORDSON Tractors

No. 734

Rear Axle Housing and Cylinder Head Cap Screw Wrenches

Openings: 3/4 and 7/8 inch hex.

Fits:

3/4 inch hex.

Camshaft nut (small).
Clutch lever bracket bolt.
Cylinder front cover cap screw.
Cylinder head cap screw.
Differential housing bolt and nut.
Exhaust manifold stud nuts.
Foot bracket cap screw.
Gasoline tank cap screw.
Gear shifter plate cap screw.
Magneto coil support screw.
Radiator bottom tank cap screw.
Radiator top tank cap screw.
Tool box cap screw.
Transmission housing cap screw.
Transmission housing plate cap screw.
Valve spring cover screw.

7/8 inch hex.

Air washer cap screw.
Crankshaft bearing cap screw.
Dash cap screw.
Drawbar cap screw.
Rear axle housing cap screw.

Construction: 9/16 inch heavy steel bar with deep dome top socket.
Finish: Burnished nickel.
Length: 10-1/2 inches.
Packing: Six wrenches in a carton.
Shipping Weight: Six wrenches, 8-1/4 pounds.

No. 736

Fly Wheel Cap Screw Wrench

Opening: 3/4 inch.
Fits:
Connecting rod cap bolt nut.
Fly wheel stud nut.
Construction: 3/4 inch heavy forged steel, solid one piece.
Finish: Burnished nickel.
Length: 11-3/8 inches.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 12 pounds.

No. 0129

Large Series Socket

Opening: 29/32 inch hex.
Construction: See page 18.
Fits: With No. 325 handle
Crankshaft bearing set screw.
Drawbar cap screw.
Finish: Mottled and lacquered.

No. 0147

Large Series Socket

Opening: 1-15/32 inches hex.
Fits: With No. 325 handle
Crankshaft nut (large).
Construction: See page 18.
Finish: Mottled and lacquered.

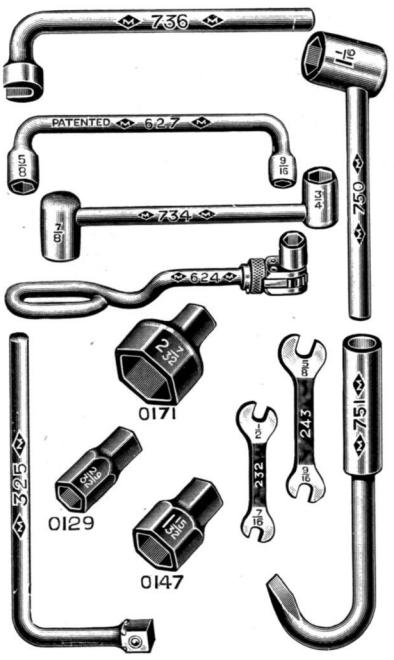
No. 0171

Large Series Socket

Opening: 2-7/32 inches hex.
Fits: With No. 325 handle
Air washer drain plug.
Crankcase drain plug.
Gear shifter plate cap.
Rear axle housing oil plug.
Worm nut.
Construction: See page 18.
Finish: Mottled and lacquered.

No. 700 Set

Mechanics' Complete Set for Fordson



A very carefully arranged set for general work on Fordson tractors, highly adapted for the farm workshop or garage.

Overstrong tools, of solid construction, from special steel.

Contains:

No. 734 Offset wrench, 3/4 and 7/8 inch hex. openings.
No. 736 Fly wheel cap screw wrench.
No. 750 Rear wheel bolt wrench.
No. 751 Hook extension for No. 750.
No. 624 Ratchet connecting rod wrench.
No. 627 Offset socket wrench, 9/16 and 5/8 inch hex. openings.
No. 325 Offset handle.
No. 0129 Large series socket, 29/32 inch hex. opening.
No. 0147 Large series socket, 1-15/32 inch hex. opening.
No. 0171 Large series socket, 2-7/32 inch hex. opening.
No. 232 Double-end wrench, 7/16, 1/2 inch hex. openings.
No. 243 Double-end wrench, 9/16, 5/8 inch hex. openings.

Construction: All special steel.
Finish: Burnished nickel.
Packing: Each box in corrugated container.
Shipping Weight: 16 pounds each set.
Electrotypes: 2 by 3-1/2 inches and 1-3/8 by 2-3/8 inches.

No. 750

Rear Wheel Bolt Wrench

Opening: 1-1/16 inch hex.
Fits:
Rear wheel hub cap screw.
Seat spring cap screw.
Spindle arm nut.
Spindle nut.
Construction: 3/4 inch heavy bar steel and deep socket.
Finish: Burnished nickel.
Length: 8-1/2 inches.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 13 pounds.

No. 751

Hook Extension for No. 750

Fits:
Rear axle housing.
Rear wheel bushing.
Construction: 3/4 inch heavy bar steel, with opening to fit No. 750.
Finish: Burnished nickel.
Length: 10-3/4 inches.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 14-1/2 pounds.

No. 325

Offset Handle

Construction: 11/16 inch heavy steel bar.
Finish: Burnished nickel.
Length: 11 inches.
Packing: Six in a carton.
Shipping Weight: Six handles, 11 pounds.

No. 232

Double-End Wrench

Openings: 1/2 and 7/16 inch.
Fits:

1/2 inch opening

Crankcase pipe plug.
Float chamber stud nut.
Transmission housing plug.

7/16 inch opening

Air washer cover cap screw and nut.
Air washer flange cap screw.
Clutch housing cap screw and nut.
Commutator lock nut.
Exhaust tube bracket cap screw and nut.
Fan screws.
Radiator tank cap screws and nuts.

Construction: "All-Steel."
Finish: Full finish.
Length: 4-3/4 inches.

No. 243

Double-End Wrench

Openings: 5/8 and 9/16 inch.
Fits:

5/8 inch opening

Commutator spring stud nut.
Fuel inlet elbow pack nut.
Gasoline feed tube pack nut.
Gasoline shut-off cock pack nut.
Kerosene feed tube pack nut.
Sediment bulb pack nut.

9/16 inch opening

Mixer chamber stud nuts.

Construction: "All-Steel."
Finish: Full finish.
Length: 5-3/4 inches.

FRANK MOSSBERG COM
LAMB STREET · ATTL

SET 3050

15 MOSSBERG SOCKET WRENCHES

FIT EVERY

CHEVROLET ADJUSTMENT

BODY BOLTS & NUTS
5/8 3009

RUNNING BOARD BOLTS
7/16 1/2 3006

CL
3/4

SPRING CLIP NUTS
3/4 677 1902

BEVEL RING GEAR SCREWS
1/2 3001 630 2333

DIFFERENTIAL CASE NUTS
9/16 3001 677

REAR AXLE HOUSING BOLTS & NUTS
1/2 630 3001

REAR AXLE HOUSING OIL PLUG
1/2 3006

PROPELLER SHAFT HOUSING REAR SCREWS
3/4 677

UNIVERSAL BALL HOUSING COLLAR BOLTS & NUTS
1/2 3001 630

SPRING CENTER BOLT
7/8 1902 679

TRANSMISSION SUPPORT FRONT BOLT
3/4 5/8 3008 3007

TRANSMISSION CASE COVER SCREW
1/2 2333 3001

PISTON WRIST PIN SCREW
9/16 3001 2337

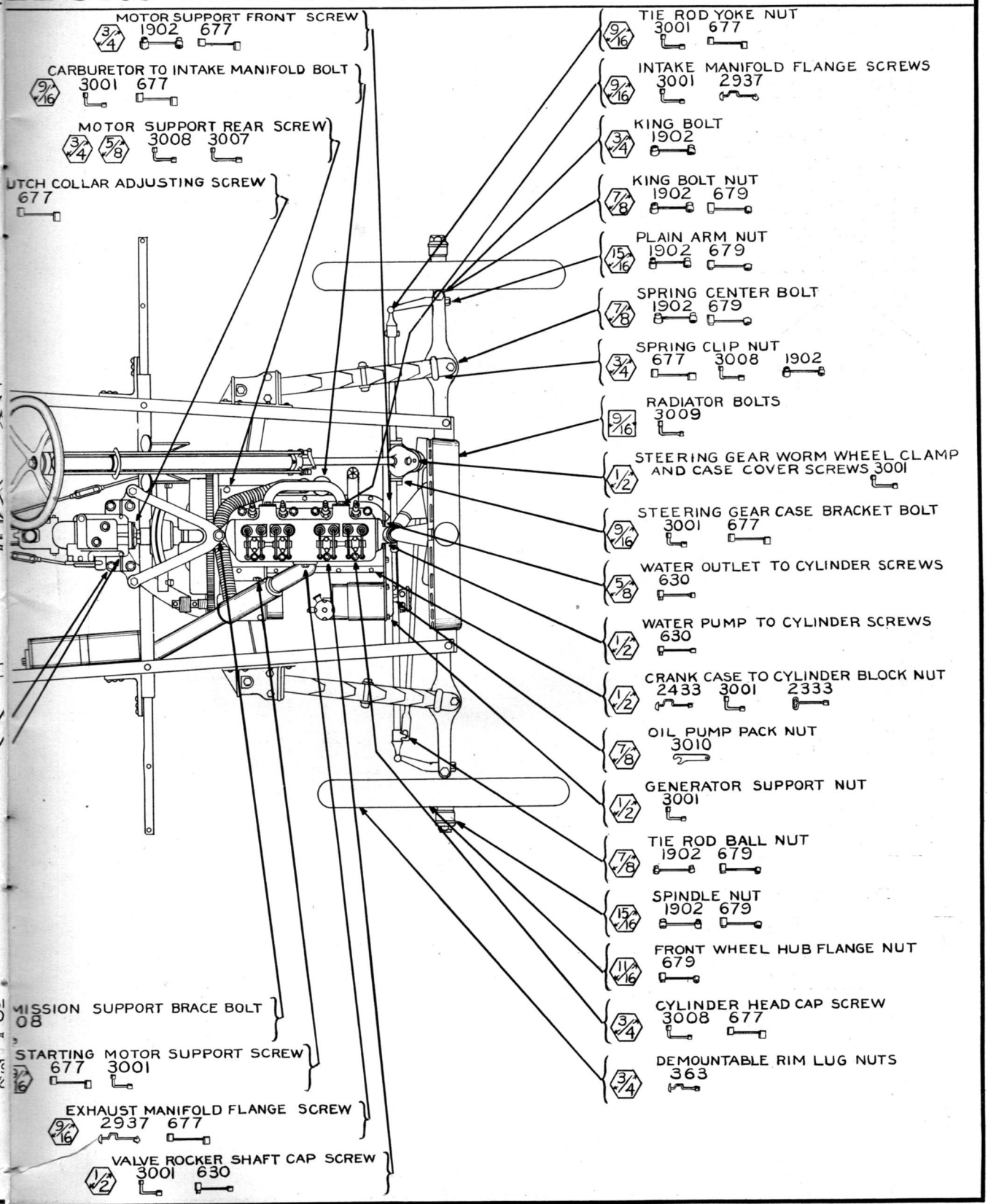
CONNECTING ROD CAP SCREW
9/16 3001 677 2337

CRANK SHAFT MAIN BEARING SCREW
7/8 3008

FLYWHEEL TO CRANK SHAFT SCREW
9/16 2937 3001

TRANSI
3/4 30

Plan of Chevrolet Chassis giving sizes of nuts,
especially adaptable



, bolts and screw heads, and Mossberg wrenches
e for each fitting.

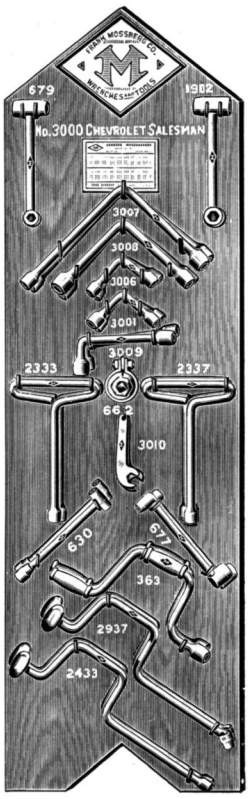
Mossberg Wrenches for Chevrolet Cars

The success of the Chevrolet "Superior" models has given that car greatly increased distribution.

The general acceptance of that car has created a demand for wrenches and tools that are particularly designed for individual requirements of Chevrolet work.

Here they are—especially designed by Mossberg engineers in consultation with the practical repair men—and these tools reflect the keen Mossberg analysis of work to be done and the proper wrenches to do this work.

Salesman No. 3000



The turnover and profit on wrenches and tools are at their best, when displayed on a board. Take advantage of this unusual salesman—for the board, no charge.

Store Display Stand Description:

Construction: Cabinet work with three coats of finish. Second growth chestnut.

Hooks: Each pair holds two wrenches. Hooks are nickeled.

Finish: Natural grain.

Size: 20 inches wide by 66 inches high.

Price: Free with complete assortment.

Assortment Description:

Construction: All bar items of heavy chrome manganese steel.

Finish: Burnished nickel.

Packing: Durable carton.

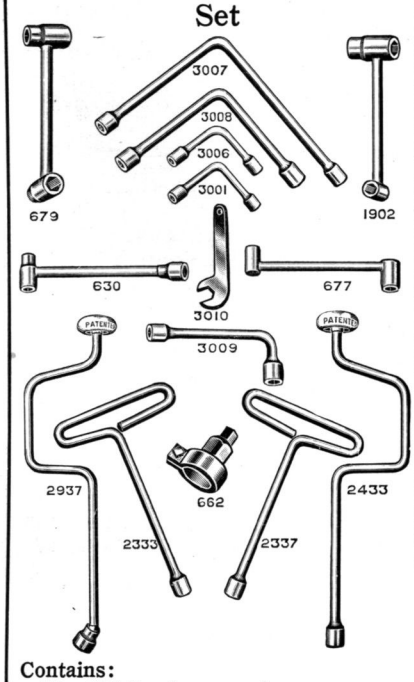
Shipping Weight: Board and assortment, 182 pounds.

Electrotypes: 1-1/4 by 4 inches.

No. 3000 Chevrolet Salesman—65 wrenches—16 types

Quantity	Wrench No.	Openings	Chief Use of each Wrench.
4	363	3/4 hex.	Demountable rim lug wrenches
4	630	1/2, 5/8 hex.	Service wrenches
3	662	.....	Wheel puller
3	677	9/16, 3/4 hex.	Double-end utility wrenches
3	679	11/16, 7/8, 15/16 hex.	Triple-end utility wrenches
6	1902	3/4, 7/8, 15/16, 1 inch hex.	"Four-Way" wrenches
3	2333	1/2 hex.	12 inch Tee wrenches
3	2337	9/16 hex.	12 inch Tee wrenches
3	2433	1/2 hex.	Speed brace wrenches
6	2937	9/16 hex.	"Swivel-Joint" wrenches
6	3001	1/2, 9/16 hex.	Service wrenches
3	3006	7/16, 1/2 hex.	Running board bolt wrenches
3	3007	3/4, 5/8 hex.	Transmission support bolt wrenches
6	3008	3/4, 7/8 hex.	Main bearing and cylinder head cap screw wrenches
3	3009	9/16, 5/8 sq.	Radiator bolt nut wrenches
6	3010	7/8 open	Oil pump pack nut wrenches

No. 3050 Chevrolet Service Set



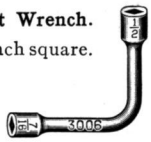
Contains:
- No. 630 Service wrench.
- No. 662 Wheel puller.
- No. 677 Double-end utility wrench.
- No. 679 Triple-end utility wrench.
- No. 1902 "Four-way" wrench.
- No. 2333 12 inch Tee wrench, 1/2 inch.
- No. 2337 12 inch Tee wrench, 9/16 inch.
- No. 2433 Speed brace wrench, 1/2 inch.
- No. 2937 "Swivel-Joint" wrench, 9/16 inch.
- No. 3001 Service wrench.
- No. 3006 Running board bolt wrench.
- No. 3007 Transmission support bolt wrench.
- No. 3008 Main bearing and cylinder head cap screw wrench.
- No. 3009 Radiator bolt nut wrench.
- No. 3010 Oil pump pack nut wrench.

Fits: See directory of fittings on page 40.
Construction: All bar items of heavy chrome manganese steel.
Finish: Burnished nickel.
Packing: Each set in corrugated container.
Shipping Weight: 22 pounds each set.
Electrotypes: 2 by 3-1/4 inches.

Mossberg Wrenches for Chevrolet Cars

No. 3006

Running Board Bolt Wrench.



Openings: 7/16 and 1/2 inch square.

Fits:
Rear axle housing oil plug.
Running board bolt.

Construction: 1/2 inch chrome manganese steel bar and sockets of solid one-piece construction.

Finish: Burnished nickel.

Length: 4-1/2 by 4-1/4 inches.

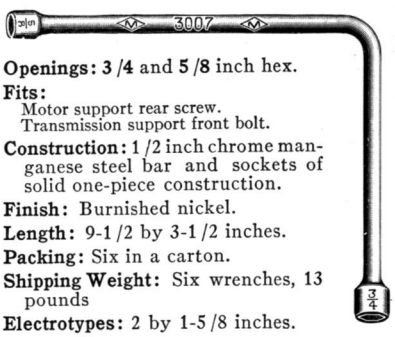
Packing: Six in a carton.

Shipping Weight: Six wrenches, 3-1/2 pounds.

Electrotypes: 11/16 by 13/16 inch.

No. 3007

Transmission Support Bolt Wrench



Openings: 3/4 and 5/8 inch hex.

Fits:
Motor support rear screw.
Transmission support front bolt.

Construction: 1/2 inch chrome manganese steel bar and sockets of solid one-piece construction.

Finish: Burnished nickel.

Length: 9-1/2 by 3-1/2 inches.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 13 pounds

Electrotypes: 2 by 1-5/8 inches.

No. 3008

Main Bearing and Cylinder Head Cap Screw Wrench

Openings: 3/4 and 7/8 inch hex.

Fits:
Cylinder head cap screws.
Crank shaft main bearing screw.
Front axle spring clip nuts.
Transmission support brace bolts.

Construction: 1/2 inch chrome manganese steel bar and sockets of solid one-piece construction.

Finish: Burnished nickel.

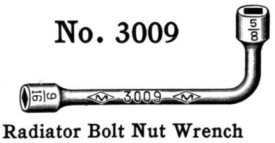
Length: 8-1/2 by 8-1/4 inches.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 9 pounds.

Electrotypes: 1-3/8 by 1-3/8 inches.

No. 3009



Radiator Bolt Nut Wrench

Openings: 9/16 and 5/8 inch square.

Fits:
Body bolt nuts.

Construction: 1/2 inch chrome manganese steel and sockets of solid one-piece construction.

Finish: Burnished nickel.

Length: 9-1/2 by 3-1/2 inches.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 5-1/2 pounds.

Electrotypes: 1-5/16 by 5/8 inch.

No. 3001

Openings: 1/2 and 9/16 inch hex.

Fits:
Bevel ring gear screws, rear axle.
Carburetor-to-intake manifold bolt.
Connecting rod cap screw.
Crank case-to-cylinder block nut.
Differential case nuts, rear axle.
Flywheel-to-crank shaft screw.
Generator support nut.
Intake manifold flange screws.
Piston wrist pin screw.
Rear axle housing bolts and nuts.
Starting motor support screw.
Steering gear case cover screws.
Steering gear case bracket bolt.
Steering gear worm wheel clamp screws.
Tie rod yoke nut, front axle.
Transmission case cover screw.
Universal ball housing collar bolts and nuts.
Valve rocker shaft cap screw.

Construction: 1/2 inch chrome manganese steel bar and sockets of solid one-piece construction.

Finish: Burnished nickel.

Length: 4 by 4 inches.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 3 pounds.

Electrotypes: 3/4 by 3/4 inch.

No. 3010

Oil Pump Pack Nut Wrench

Opening: 7/8 inch.

Fits: Oil pump pack nut.

Construction: High carbon steel.

Finish: Burnished nickel.

Length: 6 inches.

Packing: Six in a carton.

Shipping Weight: Six wrenches, 2 pounds.

Electrotypes: 1-5/8 by 1/2 inch.

No. 363

Demountable Rim Lug Wrench

Opening: 3/4 inch hex.

Length: 14 inches.

See page 9 for illustration.

No. 630

Openings: 1/2 and 5/8 inch hex.

Fits:
Bevel ring gear screws.
Rear axle housing bolts and nuts.
Universal ball housing collar bolts and nuts.
Valve rocker shaft cap screw.
Water outlet-to-cylinder screws.
Water pump-to-cylinder screws.

Length: 9-3/4 inches.

See page 33 for illustration.

No. 662

Wheel Puller

Fits: 1922 Model 490, 1923 Superior Model, and Star Car.

See page 32 for illustration.

No. 677

Openings: 9/16 and 3/4 inch hex.

Fits:
Carburetor-to-intake manifold nuts.
Clutch collar adjusting screw.
Connecting rod cap screw.
Cylinder head cap screw.
Differential case nuts, rear axle.
Exhaust manifold flange screw.
Motor support front screw.
Propeller shaft housing, rear screws.
Spring clip nuts, front and rear axle.
Starting motor support screw.
Steering gear case bracket bolt.
Tie rod yoke nut.

Length: 9-3/8 inches.

See page 29 for illustration.

No. 679

Openings: 11/16, 7/8, and 15/16 inch hex.

Fits:
Front wheel hub flange nut.
King bolt nut.
Main axle shaft nut, rear axle.
Plain arm nut.
Rear wheel-to-brake drum screws.
Spindle nut, front axle.
Spring center bolts, front and rear axle.
Tie rod ball nut.

Length: 10-3/4 inches.

See page 29 for illustration.

No. 1902

Openings: 3/4, 7/8, 15/16, 1 inch hex.

Fits:

Front Axle

King bolt.
King bolt nut.
Plain arm nut.
Spindle nut.
Spring center bolt.
Spring clip nuts.
Tie rod ball nut.

Rear Axle

Main axle shaft nut.
Spring center bolt.
Spring clip nuts.
Motor support front screw.

Length: 9-1/2 inches.

See page 8 for illustration.

No. 2333

Opening: 1/2 inch hex.

Fits:
Bevel ring gear screws.
Crank case-to-cylinder block nut.
Transmission case cover screw.

Length: 12 inches.

See page 7 for illustration.

No. 2337

Opening: 9/16 inch hex.

Fits:
Connecting rod cap screws.
Piston wrist pin screw.

Length: 12 inches.

See page 7 for illustration.

No. 2433

Opening: 1/2 inch hex.

Fits:
Crank case-to-cylinder block nut.

Length: 19-1/4 inches.

See page 7 for illustration.

No. 2937

Opening: 9/16 inch hex.

Fits:
Flywheel-to-crank shaft screw.
Intake manifold flange screws.

Length: 19-1/4 inches.

See page 7 for illustration.

Complete Reference of MOSSBERG Wrenches for all Work on Chevrolet Cars

PART NAME	Size Across Flats on Nuts	Mossberg Wrenches to Fit
FRONT AXLE		
Front wheel hub flange nut	11/16	679
King bolt	3/4	1902
King bolt nut	7/8	1902, 679
Plain arm nut	15/16	1902, 679
Spindle nut	15/16	1902, 679
Spring center bolt	7/8	1902, 679
Spring clip nuts	3/4	677, 3008, 1902
Tie rod ball nut	7/8	1902, 679
Tie rod yoke nut	9/16	3001, 677
REAR AXLE		
Bevel ring gear screws	1/2	3001, 630, 2333
Differential case nuts	9/16	3001, 677
Main axle shaft nut	15/16	1902, 679
Propeller shaft housing rear screws	3/4	677
Rear axle housing bolts and nuts	1/2	630, 3001
Rear axle housing oil plug	1/2 sq.	3006
Rear wheel-to-brake drum screws	11/16	679
Spring center bolt	7/8	1902, 679
Spring clip nuts	3/4	677, 1902
Universal ball housing collar bolts and nuts	1/2	3001, 630
MOTOR		
Carburetor-to-intake manifold bolt	9/16	3001, 677
Clutch collar adjusting screw	3/4	677
Connecting rod cap screw	9/16	3001, 677, 2337
Crank case-to-cylinder block nut	1/2	2433, 3001, 2333
Crank shaft main bearing screw	7/8	3008
Cylinder head cap screw	3/4	3008, 677
Exhaust manifold flange screw	9/16	677, 2937
Flywheel-to-crank shaft screw	9/16	2937, 3001
Generator support nut	1/2	3001
Intake manifold flange screws	9/16	3001, 2937
Motor support front screw	3/4	1902, 677
Motor support rear screw	3/4 x 5/8	3007
Oil pump pack nut	7/8	3010
Piston wrist pin screw	9/16	3001, 2337
Starting motor support screw	9/16	677, 3001
Transmission case cover screw	1/2	2333, 3001
Transmission support brace bolt	3/4	3008
Transmission support front bolt	3/4 x 5/8	3007
Water pump-to-cylinder screws	1/2	630
Water outlet-to-cylinder screws	5/8	630
Valve rocker shaft cap screw	1/2	3001, 630
STEERING ASSEMBLY		
Steering gear case bracket bolt	9/16	3001, 677
Steering gear case cover screws	1/2	3001
Worm wheel clamp screws	1/2	3001
MISCELLANEOUS		
Body bolt nut	5/8 sq.	3009
Demountable rim lug nuts	3/4	363
Radiator bolts	9/16 sq.	3009
Running board bolt	7/16 x 1/2 sq.	3006
Wheel puller		662

Complete Reference of MOSSBERG Wrenches for all Work on Dodge Cars

PART NAME	Size Across Flats on Nuts	Mossberg Wrenches to Fit
FRONT AXLE		
Front spring shackle bolt nuts	3/4	677, 1902
Front wheel hub flange bolt nut	3/4	3303, 3107, 1902
Front wheel bearing adjusting nut	1-1/16	1912
Spring clip nuts	3/4	677, 3303
Steering arm nut	1	1902
Steering knuckle bolt and nut	15/16	1902
Steering knuckle tie rod bolt	3/4	3303, 677
Steering knuckle tie rod nut	9/16	3303, 677
Steering knuckle tie rod yoke nut	9/16	3303, 677
Steering lever arm clamp bolt nut	3/4	677
REAR AXLE		
Differential carrier clamp bolt nut	7/8	2357, 1902
Differential case stud nuts	9/16	3303, 2337, 677
Rear axle housing cover screws	7/16	17F
Rear gear bolt and nuts	9/16	3303, 2337, 677
Rear hub flange bolt nut	3/4	3107, 3303
Rear spring clip nuts	3/4	1902, 3303, 3107
Rear spring shackle bolts and nuts	9/16	3303, 2337, 677
Rear wheel bearing lock bolt and nut	3/4	677, 1902
Rear wheel-to-brake drum nut	9/16	3303, 2337
Rear wheel lock nut	1-1/4	1912
Ring gear bolt and nuts	9/16	3303, 2337, 677
Torque tube-to-rear axle housing nut	5/8	2841
MOTOR		
Clutch housing screws	1/2	2833
Connecting rod cap bolt nuts	3/4	3105, 677
Cylinder head stud nuts	11/16	3104
Exhaust manifold flange stud nuts	9/16	677, 3303
Fan shaft clamp screws	5/8	2841
Front motor support bolt	9/16	2337, 3303, 3106, 677
Intake manifold flange stud nuts	1/2	2833, 3106, 17F
Main bearing stud nuts	7/8	2357, 1902, 3105
Motor support arm bolt	3/4	3107, 677
Oil pan-to-motor block screws	1/2	2433, 2833
Propeller shaft bearing clamp screw nut	1	1902
Propeller shaft nut	1-1/4	1912
Radiator support nut	3/4	3107
Starter chain inspection cover screws	1/2	2833, 17F
Timing gear case cover screws	1/2	3106, 2833, 2433, 17F
Transmission cover screws	1/2	2833, 17F
Universal joint bolt and nuts	9/16	677, 2337, 3303
Universal joint cover bolt nuts	1/2	17F, 3106
Water inlet elbow screws	9/16	3106, 677, 3303
Water pump screws	9/16	677
STEERING ASSEMBLY		
Steering gear adjusting lock nut clamp bolt	5/8	2841
Steering gear case cover screw	1/2	17F
Steering gear case support bolt nuts	11/16	3104
Steering post coupling bolts and nuts	9/16	3106, 677
MISCELLANEOUS		
Demountable rim lug nuts	5/8	361
Head lamp bracket bolt	7/16	17F
Muffler support bolt nuts	9/16	677
Tire carrier to body bolt nuts	3/4 and 31/32	1912–1902

FRANK MOSSBERG COM

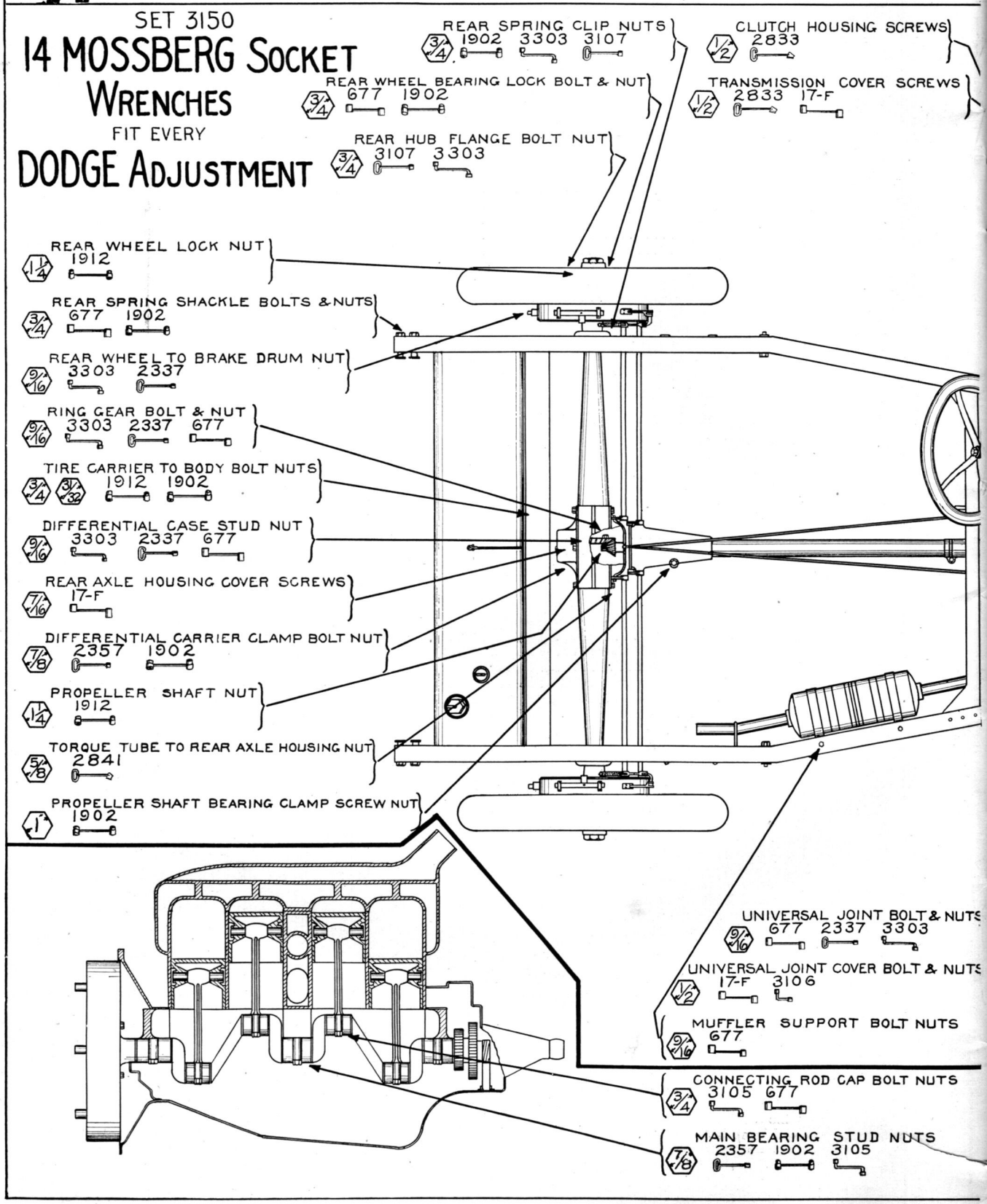
LAMB STREET · ATTL

SET 3150

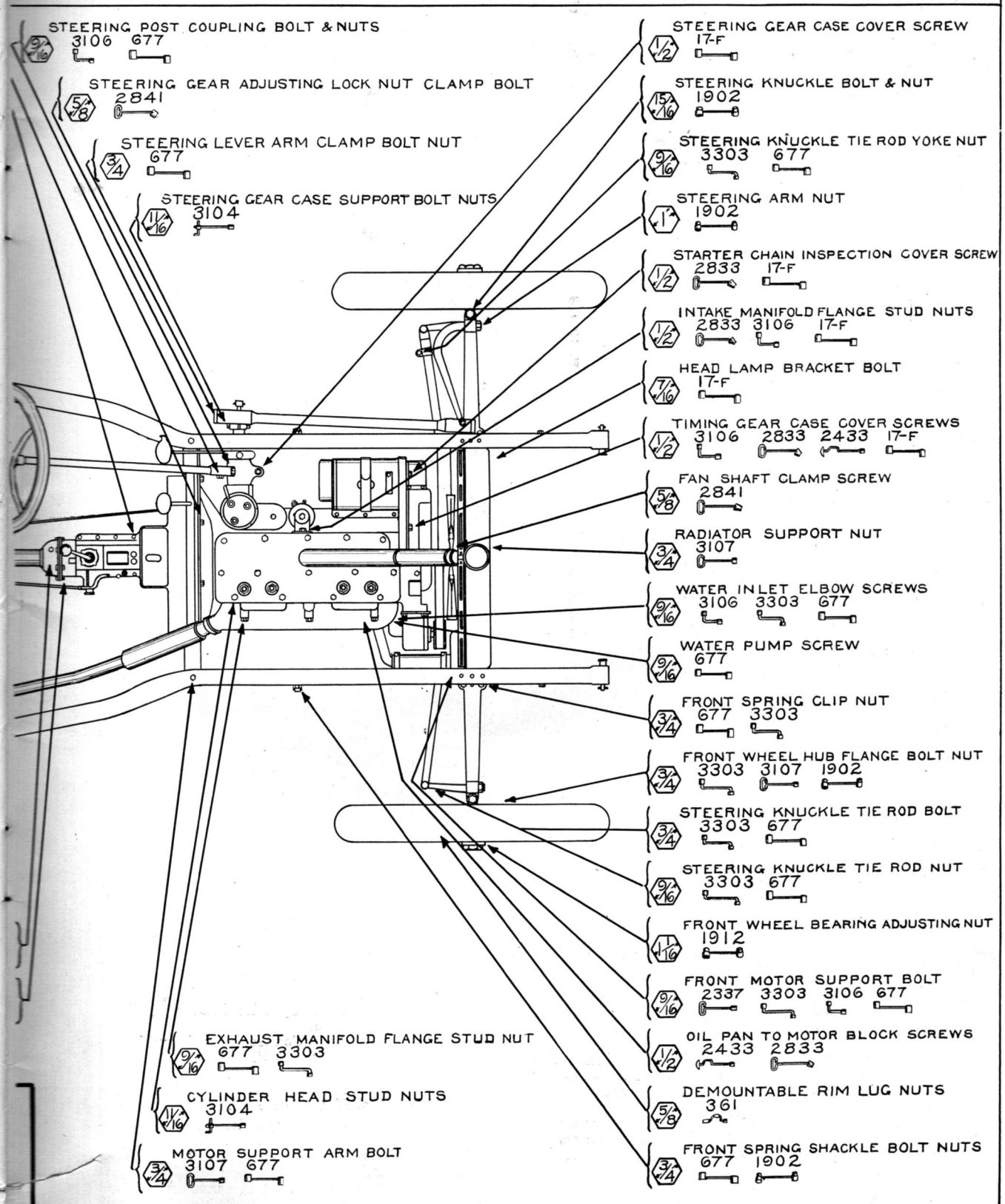
14 MOSSBERG SOCKET WRENCHES

FIT EVERY

DODGE ADJUSTMENT


REAR SPRING CLIP NUTS 3/4 1902 3303 3107
CLUTCH HOUSING SCREWS 1/2 2833
REAR WHEEL BEARING LOCK BOLT & NUT 3/4 677 1902
TRANSMISSION COVER SCREWS 1/2 2833 17-F
REAR HUB FLANGE BOLT NUT 3/4 3107 3303
REAR WHEEL LOCK NUT 1 1/4 1912
REAR SPRING SHACKLE BOLTS & NUTS 3/4 677 1902
REAR WHEEL TO BRAKE DRUM NUT 9/16 3303 2337
RING GEAR BOLT & NUT 9/16 3303 2337 677
TIRE CARRIER TO BODY BOLT NUTS 3/4 3/32 1912 1902
DIFFERENTIAL CASE STUD NUT 9/16 3303 2337 677
REAR AXLE HOUSING COVER SCREWS 7/16 17-F
DIFFERENTIAL CARRIER CLAMP BOLT NUT 7/8 2357 1902
PROPELLER SHAFT NUT 1 1/4 1912
TORQUE TUBE TO REAR AXLE HOUSING NUT 5/8 2841
PROPELLER SHAFT BEARING CLAMP SCREW NUT 1 1902
UNIVERSAL JOINT BOLT & NUTS 9/16 677 2337 3303
UNIVERSAL JOINT COVER BOLT & NUTS 1/2 17-F 3106
MUFFLER SUPPORT BOLT NUTS 9/16 677
CONNECTING ROD CAP BOLT NUTS 3/4 3105 677
MAIN BEARING STUD NUTS 7/8 2357 1902 3105

Plan of Dodge Chassis giving sizes of nuts, especially adaptable



bolts and screw heads, and Mossberg wrenches for each fitting.

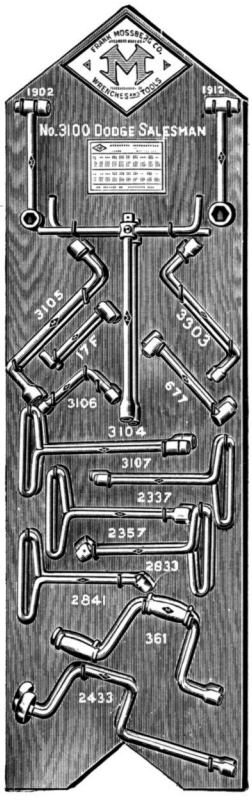
Mossberg Wrenches for Dodge Cars

The great registration of Dodge Brothers cars over all the world gives a natural demand for wrenches and tools that are quick to respond and yet are enduring.

The Mossberg Company assumes a responsibility when it markets special tools for special work—because the cleverness of the designs must not yield to any compromise for strength.

These Mossberg tools for Dodge cars are responsible.

Salesman No. 3100



Merchandise is sold in 95% of all cases because of the display of the goods in some manner.

Increase your tool sales 95% with the Mossberg Salesman for Dodge tools—for the board, no charge.

Store Display Stand Description:

Construction: Cabinet work with three coats of finish. Second growth chestnut.

Hooks: Each pair holds two wrenches. Hooks are nickeled.

Finish: Natural grain.

Size: 20 inches wide by 66 inches high.

Price: Free with complete assortment.

Assortment Description:

Construction: All bar items of heavy chrome manganese steel.

Finish: Burnished nickel.

Packing: Durable cartons.

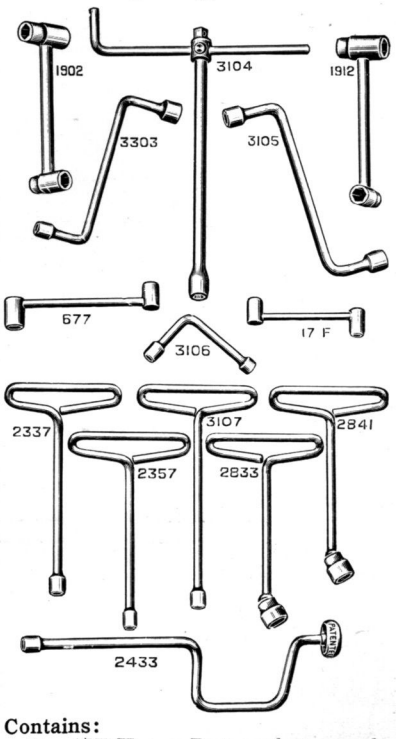
Shipping Weight: Board and assortment, 190 pounds.

Electrotypes: 1-1/4 by 4 inches.

No. 3100 Dodge Salesman—62 wrenches—15 types

Quantity	Wrench No.	Openings	Chief Use of each Wrench
4	17F	7/16, 1/2 hex.	Heavy-Duty socket wrenches
5	361	5/8 hex.	Demountable rim lug nut wrenches
4	677	9/16, 3/4 hex.	Double-end service wrenches
5	1902	3/4, 7/8, 15/16, 1 inch hex.	"Four-Way" socket wrenches
3	1912	7/8, 31/32, 1-1/16, 1-1/4 hex.	"Four-Way" socket wrenches
3	2337	9/16 hex.	12 inch Tee socket wrenches
3	2357	7/8 hex.	12 inch Tee socket wrenches
5	2433	1/2 hex.	Speed brace socket wrenches
5	2833	1/2 hex.	"Swivel-Joint" Tee wrenches
3	2841	5/8 hex.	"Swivel-Joint" Tee wrenches
6	3104	11/16 hex.	Cylinder head stud nut wrenches
5	3105	3/4, 7/8 hex.	Connecting rod cap bolt and main bearing stud nut wrenches
3	3106	1/2, 9/16 hex.	Service wrenches
3	3107	25/32 hex.	Radiator support nut wrenches
5	3303	9/16, 3/4 hex.	Service wrenches

No. 3150 Dodge Service Set

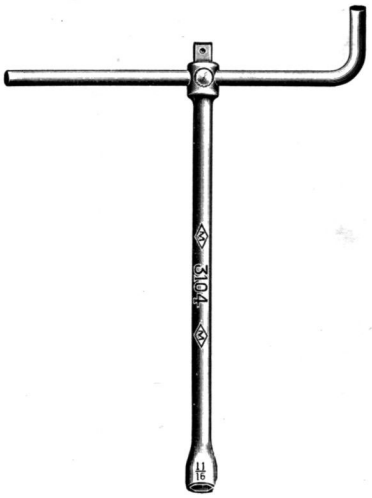


Contains:

No. 17F Heavy Duty socket wrench.
No. 677 Double-end service wrench.
No. 1902 "Four-Way" socket wrench.
No. 1912 "Four-Way" socket wrench.
No. 2337 12" "Tee" socket wrench.
No. 2357 12" "Tee" socket wrench.
No. 2433 Speed brace socket wrench.
No. 2833 "Swivel-Joint" "Tee" wrench.
No. 2841 "Swivel-Joint" "Tee" wrench.
No. 3104 Cylinder head stud nut wrench.
No. 3105 Connecting rod cap bolt and main bearing stud nut wrench.
No. 3106 Service wrench.
No. 3107 Radiator support nut wrench.
No. 3303 Service wrench.

Fits: See directory of fittings on page 41.
Construction: All bar items of heavy chrome manganese steel.
Finish: Burnished nickel.
Packing: Each set in corrugated container.
Shipping Weight: 25 pounds each set.
Electrotypes: 2 by 3-5/8 inches.

No. 3104
Cylinder Head Stud Nut Wrench

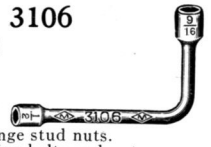


Opening: 11/16 inch hex.
Fits:
Cylinder head stud nuts.
Steering gear case support bolt nuts.
Construction: Handle, 5/8 inch bar; Extension Unit, 11/16 inch bar; all of chrome manganese steel; solid, one-piece construction.
Finish: Burnished nickel.
Length: 19 inches.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 23 pounds.
Electrotypes: 1-7/8 by 2-3/8 inches.

No. 3105
Connecting Rod Cap Bolt and Main Bearing Stud Nut Wrench

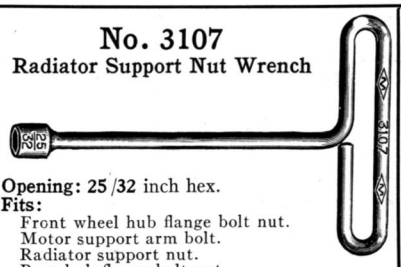
Openings: 3/4 and 7/8 inch hex.
Fits:
Connecting rod cap bolt nuts.
Main bearing stud nuts.
Construction: 5/8 inch chrome manganese steel bar and sockets of solid one-piece construction.
Finish: Burnished nickel.
Length: 12-1/2 inches.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 11 pounds.
Electrotypes: 2 by 1-1/8 inches.

No. 3106



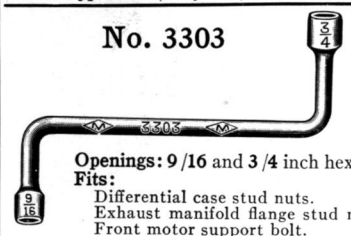
Openings: 1/2 and 9/16 inch hex.
Fits:
Front motor support bolt.
Intake manifold flange stud nuts.
Steering post coupling bolts and nuts.
Timing gear case cover screws.
Universal joint cover bolt nuts.
Water inlet elbow screws.
Construction: 1/2 inch chrome manganese steel bar and sockets of solid one-piece construction.
Finish: Burnished nickel.
Size: 5-3/4 by 4-1/4 inches.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 4 pounds.
Electrotypes: 1 by 5/8 inch.

No. 3107
Radiator Support Nut Wrench



Opening: 25/32 inch hex.
Fits:
Front wheel hub flange bolt nut.
Motor support arm bolt.
Radiator support nut.
Rear hub flange bolt nut.
Rear spring clip nuts.
Construction: 1/2 inch chrome manganese steel bar and socket of solid, one-piece construction.
Finish: Burnished nickel.
Length: 14 inches. **Packing:** Six in a carton.
Shipping Weight: Six wrenches, 11 pounds.
Electrotypes: 1-1/4 by 2-1/4 inches.

No. 3303



Openings: 9/16 and 3/4 inch hex.
Fits:
Differential case stud nuts.
Exhaust manifold flange stud nuts.
Front motor support bolt.
Front wheel hub flange bolt nut.
Rear hub flange bolt nut.
Rear spriag clip nut.
Rear wheel-to-brake drum nut.
Ring gear bolt and nuts.
Spring clip nuts.
Steering knuckle tie rod bolt and nut.
Steering knuckle tie rod yoke nut.
Universal joint bolt and nuts.
Water inlet elbow screws.
Construction: 1/2 inch chrome manganese steel bar and sockets of solid one-piece construction.
Finish: Burnished nickel.
Length: 10-1/4 inches.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 6-1/2 pounds.
Electrotypes: 1-3/4 by 1 inch.

No. 17F
Openings: 7/16 and 1/2 inch hex.
Fits:
Head lamp bracket bolt.
Intake manifold flange stud nuts.
Rear axle housing cover screws.
Starter chain inspection cover screws.
Steering gear case cover screw.
Timing gear case cover screws.
Transmission cover screws.
Universal joint cover bolt nuts.
Length: 7-1/8 inches.
See page 10 for illustration.

No. 361
Demountable Rim Lug Wrench
Opening: 5/8 inch hex.
Fits: Demountable rim lug nuts.
Length: 14 inches.
Throw: 5-1/4 inches.
See page 9 for illustration.

No. 1902
Openings: 3/4, 7/8, 15/16, and 1 inch hex.
Fits:
3/4 inch hex.
Front wheel hub flange bolt nut.
Rear spring clip nuts.
Rear spring shackle bolts and nuts.
Rear wheel bearing lock bolt and nut.
Tire carrier-to-body bolt nuts.
7/8 inch hex.
Differential carrier clamp bolt nut.
Main bearing stud nuts.
15/16 inch hex.
Steering knuckle bolt and nut.
1 inch hex.
Propeller shaft bearing clamp screw nut.
Steering arm nut.
Length: 9-1/2 inches.
See page 8 for illustration.

No. 677
Openings: 9/16 and 3/4 inch hex.
Fits:
9/16 inch hex.
Differential case stud nuts.
Exhaust manifold flange stud nuts.
Front motor support bolt.
Muffler support bolt nuts.
Ring gear bolt and nuts.
Steering knuckle tie rod nut.
Steering knuckle tie rod yoke nut.
Steering post coupling bolts and nuts.
Universal joint bolt and nuts.
Water inlet elbow screws.
Water pump screws.
3/4 inch hex.
Connecting rod cap bolt nuts.
Front spring shackle bolt nuts.
Motor support arm bolt.
Rear spring shackle bolt nuts.
Rear wheel bearing lock bolt and nut.
Spring clip nuts.
Steering knuckle tie rod bolt.
Length: 9-3/8 inches.
See page 29 for illustration.

No. 1912
Openings: 7/8, 31/32, 1-1/16, and 1-1/4 inch hex.
Fits:
Front wheel bearing adjusting nut.
Propeller shaft nut.
Rear wheel lock nut.
Tire carrier-to-body bolt nuts.
Length: 11 inches.
See page 8 for illustration.

No. 2337
Opening: 9/16 inch hex.
Fits:
Differential case stud nuts.
Front motor support bolt.
Rear wheel-to-brake drum nut.
Ring gear bolt and nuts.
Universal joint bolt and nuts.
Length: 12 inches.
See page 7 for illustration.

No. 2357
Opening: 7/8 inch hex.
Fits:
Main bearing stud nuts.
Length: 12 inches.
See page 7 for illustration.

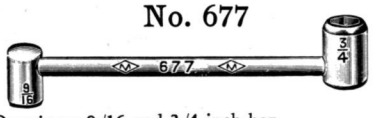
No. 2433
Opening: 1/2 inch hex.
Fits:
Oil pan-to-motor block screws.
Timing gear case cover screws.
Length: 19-1/4 inches.
See page 7 for illustration.

No. 2833
Opening: 1/2 inch hex.
Fits:
Clutch housing screws.
Intake manifold flange stud nuts.
Oil pan-to-motor block screws.
Starter chain inspection cover screws.
Timing gear case cover screws.
Transmission cover screws.
Length: 12 inches.
See page 7 for illustration.

No. 2841
Opening: 5/8 inch hex.
Fits:
Fan shaft clamp screws.
Rear axle housing nut.
Steering gear clamp bolt.
Length: 12 inches.
See page 7 for illustration.

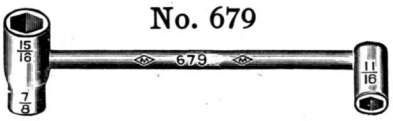
Mossberg Special Design Wrenches for Individual Cars

No. 677



Openings: 9/16 and 3/4 inch hex.
Fits: Autocar, Chandler, Chevrolet, Cleveland, Dodge, Dort, G. M. C., Liberty, Oakland, Paige, Pierce-Arrow, Reo, Seldon, Studebaker, Wills-St. Claire.
Length: 9-1/4 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 7-1/2 pounds.
Electrotypes: 1-7/8 by 1/2 inch.

No. 679

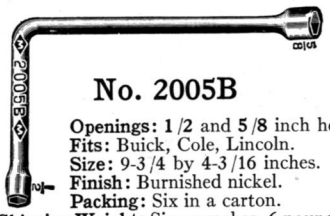


Openings: 7/8, 11/16, 15/16 inch hex.
Fits: Buick, Cadillac, Chandler, Cleveland, Chalmers, Dodge, Dort, Durant, Essex, G. M. C., Haynes, Hudson, Hupmobile, Jordan, Liberty, Lincoln, Maxwell, Mitchell, Nash, Oakland, Oldsmobile, Overland, Pierce-Arrow, Reo, Seldon, Studebaker, Wills-St. Claire, Winton.
Length: 10-3/4 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 9-1/2 pounds.
Electrotypes: 1-3/4 by 1/2 inch.

No. 2005A

Openings: 1 and 3/4 inch hex.
Fits: Buick, Peerless, Reo.
Length: 11-1/2 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 13 pounds.
Electrotypes: 1-11/16 by 1/2 inch.

No. 2005B



Openings: 1/2 and 5/8 inch hex.
Fits: Buick, Cole, Lincoln.
Size: 9-3/4 by 4-3/16 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 6 pounds.
Electrotypes: 1-11/16 by 1 inch.

No. 2005C

Openings: 1/2, 5/8, and 9/16 inch hex.
Fits: Buick, Grant, Dodge, Winton, Chandler.
Length: 9-7/8 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 6 pounds.
Electrotypes: 1-1/2 by 3/8 inch.

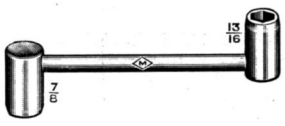
No. 2010B

Openings: 1/2 and 5/8 inch hex.
Fits: Chevrolet, Liberty.
Length: 8-1/8 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 4-3/4 pounds.
Electrotypes: 1-3/16 by 3/8 inch.

No. 2010C

Openings: 3/4 and 7/8 inch hex.
Fits: Autocar, Buick, Cadillac, Chandler, Chevrolet, Cleveland, Dodge, Franklin, G. M. C., Haynes, Seldon, Studebaker, Stutz.
Size: 8-1/4 by 8-1/4 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 7-1/2 pounds.
Electrotypes: 1-1/2 by 1-3/8 inches.

No. 2010D



Openings: 7/8 and 13/16 inch.
Fits: Autocar, Buick, Chandler, Chevrolet, Essex, G. M. C., Hudson, Oldsmobile, Scripps-Booth, Stutz.
Length: 9-1/2 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 10-1/4 pounds.
Electrotypes: 1-7/16 by 1/2 inch.

No. 2010E

Openings: 3/4, 25/32, 15/16, and 1-1/16 inch hex.
Fits: Chevrolet, Grant, Maxwell, Paige.
Length: 10-1/4 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 10 pounds.
Electrotypes: 1-3/4 by 1/2 inch.

No. 2020A

Openings: 11/16 and 15/16 inch hex.
Fits: Autocar, Cole, Pierce-Arrow, Maxwell.
Length: 10-1/4 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 9-1/4 pounds.
Electrotypes: 1-1/2 by 3/8 inch.

No. 2020B

Openings: 1/2, 5/8, and 9/16 inch hex.
Fits: Chevrolet, Maxwell.
Length: 9-1/4 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 6-1/8 pounds.
Electrotypes: 1-7/16 by 3/8 inch.

No. 2020D

Openings: 1/2 inch hex.
Fits: Chandler, Chevrolet, Cole, Franklin, G. M. C., Grant, Jordan, Marmon, Maxwell, Pierce-Arrow, Seldon, Stutz, Wills-St. Claire.
Length: 5-3/8 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 18 ounces.
Electrotypes: 7/8 by 1/4 inch.

No. 2020E

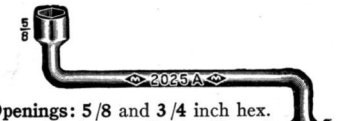
Fits: Maxwell.

Openings: 11/16 and 5/8 inch hex.
Size: 8-3/8 by 3-7/8 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 5-1/2 pounds.
Electrotypes: 1-3/8 by 11/16 inch.

No. 2020F

Openings: 1-1/8 and 1-1/4 inches hex.
Fits: Chandler, Cleveland, Dodge, Dort, G. M. C., H. C. S., Jordan, Lincoln, Maxwell, Mitchell, Oakland, Paige, Scripps-Booth, Seldon, Studebaker.
Length: 8-1/2 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 3-3/4 pounds.
Electrotypes: 1-3/8 by 3/8 inch.

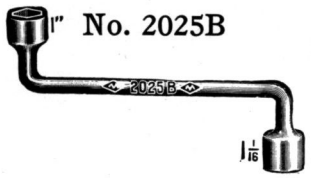
No. 2025A



Openings: 5/8 and 3/4 inch hex.
Fits: Chalmers, Dort, Durant, Jordan, Liberty, Mitchell, Nash, Overland, Oldsmobile, Scripps-Booth, Studebaker, Stutz, Willys-Knight.
Length: 10 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 6-1/4 pounds.
Electrotypes: 1-5/8 by 3/4 inch.

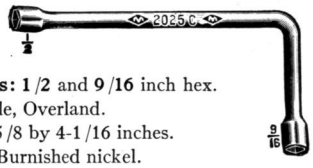
Mossberg Special Design Wrenches for Individual Cars

No. 2025B



Openings: 1 and 1-1/16 inches.
Fits: Autocar, Buick, Cadillac, Chalmers, Chandler, Cleveland, Dodge, Dort, Durant, Essex, G. M. C., Haynes, H. C. S., Hudson, Hupmobile, Jordan, Lincoln, Marmon, Maxwell, Mitchell, Nash, Oldsmobile, Overland, Peerless, Pierce-Arrow, Reo, Scripps-Booth, Seldon, Studebaker, Stutz, Willys-Knight, Winton.
Length: 10-3/4 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 15 pounds.
Electrotypes: 1-5/8 by 1/2 inch.

No. 2025C

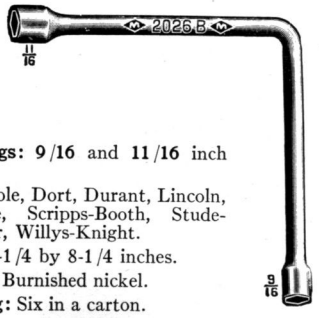


Openings: 1/2 and 9/16 inch hex.
Fits: Cole, Overland.
Size: 9-5/8 by 4-1/16 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 15 pounds.
Electrotypes: 1-5/8 by 1/2 inch.

No. 2026A

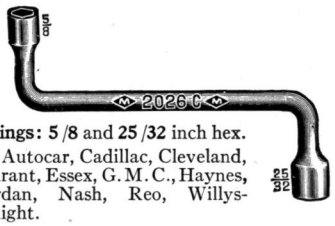
Openings: 1/2 and 7/16 inch hex.
Fits: Essex, G. M. C., H. C. S., Hudson Lincoln, Oldsmobile, Paige, Pierce-Arrow, Seldon, Stutz, Studebaker, Wills-St. Claire, Willys-Knight.
Size: 4-3/8 by 4-3/8 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 2-1/2 pounds.
Electrotypes: 7/8 by 7/8 inch.

No. 2026B



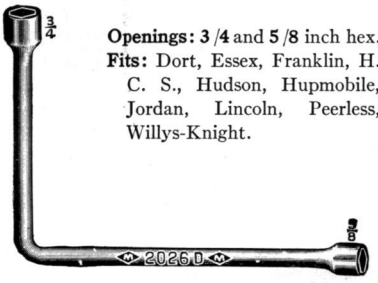
Openings: 9/16 and 11/16 inch hex.
Fits: Cole, Dort, Durant, Lincoln, Paige, Scripps-Booth, Studebaker, Willys-Knight.
Size: 8-1/4 by 8-1/4 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 6-1/4 pounds.
Electrotypes: 1-9/16 by 1-9/16 inches.

No. 2026C



Openings: 5/8 and 25/32 inch hex.
Fits: Autocar, Cadillac, Cleveland, Durant, Essex, G. M. C., Haynes, Jordan, Nash, Reo, Willys-Knight.
Length: 10 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 6-1/2 pounds.
Electrotypes: 1-11/16 by 1 inch.

No. 2026D



Openings: 3/4 and 5/8 inch hex.
Fits: Dort, Essex, Franklin, H. C. S., Hudson, Hupmobile, Jordan, Lincoln, Peerless, Willys-Knight.
Size: 10-1/4 by 6-1/2 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 7 pounds.
Electrotypes: 1-7/8 by 1-3/8 inches.

No. 3001

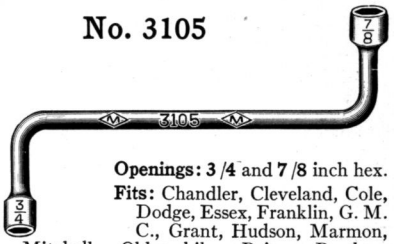
Openings: 1/2 and 9/16 inch hex.
Fits: Autocar, Cadillac, Chalmers, Chandler, Chevrolet, Cleveland, Cole, Dodge, Dort, Durant, Essex, Franklin, Grant, G. M. C., Haynes, H. C. S., Hudson, Hupmobile, Jordan, Lincoln, Marmon, Maxwell, Mitchell, Nash, Oldsmobile, Paige, Pierce-Arrow, Peerless, Reo, Scripps-Booth, Studebaker, Stutz, Wills-St. Claire, Winton.
Size: 4-1/4 by 4-1/4 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 3 pounds.
Electrotypes: 3/4 by 3/4 inch.

Wrenches for Fords
See Pages 24 to 33.

Wrenches for Chevrolet
See Pages 36 to 40.

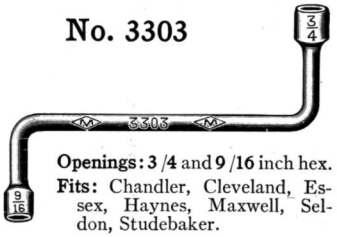
Wrenches for Dodge
See Pages 41 to 45.

No. 3105



Openings: 3/4 and 7/8 inch hex.
Fits: Chandler, Cleveland, Cole, Dodge, Essex, Franklin, G. M. C., Grant, Hudson, Marmon, Mitchell, Oldsmobile, Paige, Peerless, Pierce-Arrow, Reo, Scripps-Booth, Winton.
Length: 10-3/4 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 11 pounds.
Electrotypes: 2 by 1 inch.

No. 3303



Openings: 3/4 and 9/16 inch hex.
Fits: Chandler, Cleveland, Essex, Haynes, Maxwell, Seldon, Studebaker.
Length: 10-1/2 inches.
Finish: Burnished nickel.
Packing: Six in a carton.
Shipping Weight: Six wrenches, 6-1/2 pounds.
Electrotypes: 1-3/4 by 1 inch.

No. 2005

Buick Service Wrench Set

Consists of:

679	2005B
2005A	2005C

Finish: Burnished nickel.
Packing: Durable carton.
Shipping Weight: 6 pounds each set.
Electrotypes: 2 by 2-1/8 inches.

No. 2020

Maxwell Service Wrench Set

Consists of:

2020A	2020E
2020B	2020F
2020D	3303

Finish: Burnished nickel.
Packing: Durable carton.
Shipping Weight: 5-1/2 pounds each set.
Electrotypes: 1-7/8 by 2 inches.

No. 2025

Overland Service Wrench Set

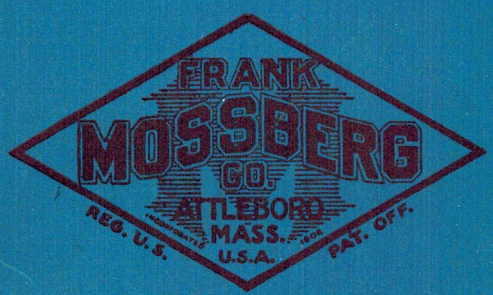
Consists of:

679	2025B
2025A	2025C

Finish: Burnished nickel.
Packing: Durable carton.
Shipping Weight: 6-1/4 pounds each set.
Electrotypes: 1-7/8 by 1-7/8 inches.

NOTES

The Sales effort of the Frank Mossberg Co., simply expressed, is
"TO DESERVE YOUR BUSINESS"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